

#startupindia

**MRO**  
INFRA  
MRO INFRA LLP

# PRODUCT CATALOG



MAINTENANCE  
**REPAIR**  
AND OPERATION  
**SOLUTIONS**

PROUDLY MADE IN INDIA

 [www.mroinfra.com](http://www.mroinfra.com)

**Niche Business**

# Maintaining momentum

A two-year-old company in Vadodara provides protection to process industries and infrastructure projects

**H**is company manufactures coatings that offer maintenance, repair and operation (MRO) solutions. It was natural, therefore, for entrepreneur Shaji Mathew to name it MRO Infra, combining what it does and for whom.

In most process industries, Mathew explains, the need for consistent high-quality, reliable plant maintenance solutions, especially in aggressive environments, is often undervalued until it is too late. Naturally, this results in expensive equipment repair and replacement, safety issues and non-budgeted labour costs.

Enter MRO Infra LLP, which has launched a broad range of comprehensive MRO products focused on proactive and preventive maintenance to keep the life of their equipment. These products have wide applications in maintenance mechanical, electrical, civil and instrumentation and help enhance productivity through safety and reliability in manufacturing, he explains. "This forms a growing success story."

Mathew, an MBA in finance and marketing who was born and brought up in Bharuch because his father had migrated from Kerala to work in Ankleshwar, worked for more than two decades in various companies, mainly in the Middle East and Africa, where he realised himself as he realised into the business. These products are not very difficult. My unit turns out 250 to 300 products, but it is very small like a kitchen! he laughs. What I have to ensure is that I use the right ingredients and recipes to make the wide range of products we offer.

All these coatings were available earlier, too, but they were imported and expensive, so not easily affordable for Indian businesses. In the face of all these products, manufactured in Europe and the US, everything that MRO Infra sells is Proudly made in India, as the company asserts. Doing



Mathew promises his customers that they won't lose even one day

this, however, involved a time cost: the first seven months went into concept selling, because very few companies used such protective coatings; then his customers approval process is often lengthy.

## Company's mission

The Meghmani group, which has 27 chemical plants in Gujarat manufacturing various products like agrochemicals, dyes and pigments, and caustic soda, has just become a customer. At group company Meghmani Finechem Ltd (MFL) in Dahej, which produces caustic soda, caustic potash, peroxochloromethane and hydrogen peroxide, says MRO Infra's products and solutions reduce chronic failure, increase uptime, extend asset life, reduce hazard from failures and improve safety.

Process-oriented industries like ours need reliable high-quality maintenance solutions, he explains. We have known Mathew for over 10 years, because he used to supply us with similar imported products. Now that he has started manufacturing them himself, they are innovative and of good quality. His teams' technical insights are excellent. Over last two years, MFL has bought electric contact cleaners, rust looseners, chemical resistant coating, anti-seize compounds and other products worth around 5 lakh to 6 lakh from the company, Rajan adds.

Mathew says his company's mission is to provide the best and most innovative MRO solutions to its industrial customers globally that shall exceed their expectations and will enable them to perform better, compete harder and work towards making this world a sustainable place. In most process-oriented industries, the need for reliable high-quality maintenance solutions is frequently undervalued, especially in the aggressive environment, until it is too late. This generally results in expensive equipment repair and replacement, safety issues and non-budgeted labour costs.

The company joined the fight against the Covid-19 pandemic by introducing an innovative product range as the need of the hour. We started with an automatic hand sanitisation dispenser, which got a positive response from the market. This encouraged us to go ahead and launch a range of more products like

Corporate Briefs, September 2020

# Crusader against corruption in industry

"Hate to break it to you," says an e-mail from MRO INFRA LLP, "but we are far from a day when machines and equipment don't break down, pipes and tanks don't leak, and industrial floorings and roads don't have potholes." This, says the company's founder MD & CEO Shaji Mathew, is bad news for the industry, but great news for industrial maintenance, repair and operation (MRO) industry.

During times of recession, people tend to spend their money on repairs instead of trashing their broken or corroded pumps, heat exchangers, tanks, pipes, valves and other fittings to replace them by buying new items. "This is especially apparent in the MRO industry," says Mathew, who set up his company in Vadodara two years ago to take advantage of this tendency and coatings by offering MRO solutions to a variety of process industries and infrastructure projects. Over these two years, he has shown that manufacturing a wide range of innovative proactive maintenance solutions tends to make a company more

successful during recessions than those that specialise in just one area.

Explaining that in most process industries, the need for consistent high-quality, reliable plant maintenance solutions is often undervalued until it is too late, Mathew says this is especially true in 'aggressive' environments where there is high pollution or the corrosive atmosphere of places near the sea. This kind of neglect naturally leads to a need for expensive equipment repair and replacement, safety issues and non-budgeted labour costs.

MRO INFRA LLP's comprehensive MRO products - there are 250 to 300 products of them - are focused on proactive and preventive maintenance to keep the users' operations going and extend the life of the client's equipment. "These products have wide applications in maintenance - mechanical, electrical, civil safety and reliability in manufacturing," he explains. "This forms a growing success story."



# Business India



Our mission is to provide the best and most innovative **Maintenance, Repair and Operation (MRO)** solutions to our industrial customers under '**Proudly made in India**' campaign that shall exceed their expectations and will enable them to perform better and compete harder.

To keep companies ahead of maintenance crises, MRO INFRA LLP has a broad range of comprehensive **MRO** products useful in **Mechanical | Electrical | Instrumentation | Civil maintenance**.

The objective of **MRO INFRA LLP** is to provide **DIY** solutions for Proactive & Preventive Maintenance & keep our industrial customers operation continuous.

For

**TDS, MSDS and ACH:**

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Co<sub>2</sub> propellant 360° spray valve

## MRO 1000-MEKANIK

### MRO 2010 MEKANIK BULK || SKU • 200 L

A multipurpose product which protects metal from rust and corrosion penetrates stuck parts, displaces moisture and lubricates almost anything.

**5 – IN – 1 Multipurpose maintenance Aerosol.**

- Cleans
- Displaces moisture
- Lubricates
- Penetrates & releases
- Protects against rust

#### || SKU

- 425 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



INDUSTRIAL AEROSOLS

#### || Benefits

- Lubricates all sliding and moving parts with a long-lasting thin oily film
- Rapidly penetrating minute cracks and pores to displace trapped moisture
- Penetrate deeply through rust to loosen scale and corroded or frozen parts
- Leave a thin, long-lasting film to prevent the formation of rust or corrosion
- Clean & remove oil, grease and other light contaminants
- Provide greaseless, non-staining, silicone-free lubrication and protection
- Contains safe non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted

#### || Application

A product as versatile as this has hundreds of multipurpose uses in all types of industrial, marine, aviation and domestic applications.

- **Cleaner:** For dissolving and removing grease, oil and other light contaminants
- **Moisture displacement:** Rapidly dries wet ignitions & removes trapped moisture from electrical and electronic systems
- **Lubrication:** Lubricates moving parts such as hinges, wheels, rollers, chains, and gears
- **Rust Penetration:** It penetrates to free stuck corroded parts like nuts, bolts, valves and locks
- **Corrosion Protection:** Protect against rust and corrosion on items like dies, jigs, tools, finished welds, casings, shafts, motors, freshly machined surfaces



Co<sub>2</sub> propellant 360° spray valve

## MRO 1001-ELEKTRICIAN

Plastic safe lubricant, penetrant and corrosion inhibitor that helps prevent electrical malfunctions caused by water penetration, humidity, condensation or corrosion. Restores resistance values and helps stop current leakage.

Multipurpose aerosol for maintaining electrical equipment.

- Displaces Moisture
- Protects all metals
- Penetrates
- Lubricates

#### || SKU

- 410 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



INDUSTRIAL AEROSOLS

#### || Benefits

- 360° valve helps the product to be sprayed in any position including inverted
- Cleans lubricates, protects, penetrates, and loosens corrosion
- Prevents corrosion by displacing moisture
- Restores resistance values by reducing current leakage
- Provides precision lubrication by its thin, high dielectric strength, lubricating film
- Helps restore water-damaged electrical equipment
- Frees rusted or seized parts by penetrating the minutest pores and cracks
- Can be used on all metals and alloys
- Will not harm most of modern plastics, painted surfaces, coatings and rubbers. Test before use
- Non-flammable CO<sub>2</sub> propellant, giving more active product content

#### || Application

Helps to protect, lubricate and restore:

- Alarm systems
- Circuit breakers
- Communication assemblies
- Controls
- Electrical connectors
- Electronics
- Generators
- Instruments
- Motors
- Relays
- Starters
- Switch gears
- Transformers



## MRO 1002-OFFLINE KLEANER

'MRO 1002-OFFLINE KLEANER' improves the performance and reliability of electrical/electronic equipment by cleaning contacts and components quickly and effectively. Prevents contact failures or malfunctions by dissolving and or rinsing away contaminants, which holds moisture and causes corrosion or arcing.

KB Value 31  
 Dielectric Strength: 22 KV  
 CO<sub>2</sub> propellant  
 360° spray valve

### || SKU

- 330 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- The periodic planned application of 'MRO 1002 - OFFLINE KLEANER' prolongs the life expectancy of components
- 360° valve helps the product to be sprayed in any position including inverted
- It is a high purity CO<sub>2</sub> propellant, giving more product content
- It is non-conductive and non-corrosive
- It is safe for all metal surfaces, most rubbers, plastics and coatings. Test on sensitive plastics, adhesive-mounted or stressed parts
- Evaporates completely, leaving no residue
- Fast cleaning action for removal of flux traces, light oils, fingerprints and other contaminants 'off-line'

### || Application

Ideal for applications where lower flash-point solvents may be used:

- |                                  |                          |
|----------------------------------|--------------------------|
| • Alarm and signal systems       | • Printed circuit boards |
| • Circuit breakers               | • Relays                 |
| • Connectors                     | • Sensors                |
| • Contacts                       | • Switches               |
| • Electromechanical assemblies   | • Terminals              |
| • Generators                     |                          |
| • Laboratory and test equipments |                          |
| • Motor controls                 |                          |
| • Plugs and sockets              |                          |

## MRO 1003-SAFETY SOL

'MRO 1003-SAFETY SOL' is a non-flammable, non-conductive, safe, solvent cleaner cum degreaser for all electrical, electromechanical and mechanical components.

KB Value 132  
 Dielectric Strength: 36 KV  
 CO<sub>2</sub> propellant  
 360° spray valve

### || SKU

- 575 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Fast penetrating & cleans equipment fast
- Non-abrasive & non-flammable
- Non-staining and non-corrosive
- Evaporates leaving no residue
- Low surface tension and controlled evaporation of cleaner provides effective cleaning
- Lowers electrical resistance at contact points
- Prevents intermittent failure of equipment, arcing, tracking, short circuits and corona discharges and improves their reliability and performance
- High powered cleaning action
- Non-staining & safe on all metals
- It contains safe, non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted

### || Application

For heavy-duty cleaning/degreasing applications of all motors, terminals, circuit breakers, plugs, sockets, transformers, switchgear, tuners, bus bars, electrical, electromechanical and mechanical equipment as brakes, chains, gears, bearings, clutches, generators, hand tools, moulds, dies, slides, pumps, forklifts, valves, nuts & bolts, pipes, power tools.





## MRO 1004-ELECTRIK MOTOR KLEANER

### MRO 1054 ELEKTRO CONTACT KLEANER

'MRO 1004-ELECTRIK MOTOR KLEANER' is a non-flammable and non-conductive fast-acting heavy duty cleaner/degreaser for electrical and mechanical components.

KB Value 93  
 Dielectric Strength: 37.5 KV  
 CO<sub>2</sub> propellant  
 360° spray valve

#### || SKU

- 567 gm
- 500 ml (Net )
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



#### || Benefits

- Fast penetrating and rapidly evaporating
- Cleans equipment faster and leaves no residue
- Quickly dislodge oil, grease, silicones, oxides and other light contaminants from electrical/electronic equipment and delicate machine parts
- Extends life of the equipment
- High dielectric strength
- Non-staining & non-corrosive
- Lowers electrical resistance at the contact points
- Prevents intermittent failure of equipment, arcing, tracking, short circuits and corona discharges and improves their reliability and performance
- Safe on most plastics, metals, rubbers, insulation materials
- Contains safe non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted

#### || Application

- Bearings
- Busbars
- Circuit breakers
- Electrical equipment
- Generators
- Gears
- Motors
- Plugs, sockets
- Switchgears
- Terminals
- Transformers
- Tuners



## MRO 1005-ELECTRONIC COMPONENT KLEANER

'MRO 1005-Electronic Component Kleaner' is a high purity cleaner designed to clean electrical connections and contacts and improve performance and prevent failures.

KB Value 31  
 Dielectric Strength: 22 KV  
 CO<sub>2</sub> propellant  
 360° spray valve

#### || SKU

- 330 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



#### || Benefits

- Fast penetrating and rapidly evaporating high purity cleaner suitable for 'off-line' cleaning applications
- Low surface tension and superior wetting abilities ensure effective cleaning
- Cleans equipment fast and leaves no residue or oily films
- Quickly dislodge oil, grease, silicones, fingerprints, carbon, oxides and other light contaminants from precision
- Electrical/electronic equipment
- Extends the life of the equipment and reliability of performance
- High dielectric strength
- Prevents intermittent failure of equipment due to arcing, tracking, short circuits and corona discharges
- Safe on most plastics, metals, rubbers, insulation materials
- Contains safe non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted

#### || Application

- Electronic equipment
- Contacts, controls, relays, switches, connectors, terminals
- Circuit breakers
- Capacitors
- PCB
- Ignition systems
- Sensors
- Plugs & sockets
- Fuse boxes
- Transformers
- Tuners
- Potentiometers
- Solenoids
- Communication equipment
- Aviation equipment



## MRO 1006-RED INSULATION VARNISH KOTE

'MRO 1006-RED INSULATION VARNISH KOTE' provides tough industrial strength oil and waterproof coating to insulate electrical equipment and components. Penetrates coats insulates & seals in one step. It is a thermal rated class F air drying varnish with outstanding adhesion to a variety of surfaces

### || SKU

- 355 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

- Electric motors
- Coils
- LT bus-bars
- Frayed insulation



### || Benefits

- The flexible nature of 'MRO 1006 - Red Insulation Varnish Kote' in a cured film, provides insulating protection while allowing for heat expansion and contraction and is highly resistant to oils, moisture, and temperature fluctuations
- Penetrates, coats, insulate & seals in one step "in-situ"
- Dries to the touch in 10 minutes & to handle in 45 minutes
- Class F (155°C)

### || Bulk version available on request:

MRO 3006 RED INSULATION VARNISH KOTE, 16 kg Case Pack (4 kg x 4 nos)



## MRO 1007-DRIVE BELT DREZING

'MRO 1007-DRIVE BELT DREZING' is specifically formulated high-quality belt dressing designed to eliminate squeaks, aid in power transfer and increase belt life. The product penetrates the cord fibers to restore pliability and flexibility and prevents belt slippage due to heat, cold, dampness, dust and glazing.

### || SKU

- 330 gm
- (500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Increase pulling power of the belt
- Protects belt from deterioration due to oxidation and heat
- Remains soft, does not harden or glaze
- Easy application, aerosol spray for maximum coverage, extension tube for hard to reach areas
- VOC compliant
- Useful in wet outdoor conditions

### || Application

For use on all round, flat & V-belts in:

- |   |                       |
|---|-----------------------|
| • Air conditioners                            | • Motorized equipment |
| • Compressors                                 | • Power tools         |
| • Conveyors                                   | • Pumps               |
| • Fans  | • Textile machines    |
| • Farm machinery                              | • Transmissions       |
| • Industrial belt drives including generators | • Vehicles            |





## MRO 1008-CHAIN LUBE

'MRO 1008-CHAIN LUBE' is a fully synthetic adhesive lubricant for lubricating fast-running chains and machine elements indoors and outdoors that are subject to high loads or corrosive influences.

### || SKU

- 330 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- High load carrying and extreme pressure properties
- Special friction-reducing additives reduce wear
- Highly effective due to outstanding creep and gap penetration properties
- Highly adhesive with good vertical cling properties and does not get thrown off or drip off
- Excellent wear protection
- Good resistance to cold and hot water as well as to saline solutions
- Excellent corrosion protection
- Good oxidation resistance
- O-ring neutral

### || Application

- Driving and conveyor chains of all designs in open or semi-enclosed operation without a re-lubrication device
- Moving machine parts exposed to outdoor weathering, such as toothed gearing, guides, closing mechanisms, hinges or sliding surfaces
- Roller chains such as motorcycle and bicycle chains
- Rope drives and wire pulls; for example, standing, hoisting, traction or winch ropes in hoisting gears, elevators, lifts or mountain railways
- Stacker truck chains as well as single or multiple flat link articulated chains without a re-lubrication device



## MRO 1009-123 DL

'MRO 1009-123 DL' is an air curing dry lubricant in aerosol with a service temperature range of -180°C to +450°C.

### || SKU

- 312gm
- 500ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Air drying
- Avoidance of stick-slip and fretting corrosion
- High ageing resistance
- Provides clean dry film lubrication and does not accumulate dirt or abrasives
- Low coefficient of friction; high surface load and pressure withstanding capacity
- Protects surfaces from wear, galling and seizure
- Oils, grease and solvent resistant
- Offers surface protection from corrosion
- Lubricates under adverse operating environments such as in vacuum or near radiation
- Provides maintenance-free permanent lubrication where oil or grease contamination cannot be tolerated
- Excellent lubricity and highly abrasion-resistant

### || Application

- Forklift Channels
- Fire doors
- Oven Chain & cables
- Overhead Crane rails
- Planting hooks in ovens
- Brake adjustment screws
- Oven dollies
- For metal/metal combinations with slow to medium-fast movements and high loads
- Used successfully for cylinder-head bolts, toaster guides, car mirror adjustment mechanisms, high voltage switches, for the running-in of highly stressed gear wheel
- Emergency lubricant for parts of the rotor head of wind energy installations and for groove-free cold extrusion of steel



## MRO 1009S-DRY GRAPHITE CONDUCTIVE SEALANT

'MRO 1009S-DRY GRAPHITE CONDUCTIVE SEALANT' –is an air curing dry conductive lubricant in aerosol with a service temperature range of -18°C to +500°C.

### || SKU

- 312gm
- 500ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

- For electrically conductive applications as in cathode ray tubes and for protection and lubrication of electrical components
- As a conductive coating/sealant for preventing bimetallic corrosion, arcing, heat freezing and for improving low conductivity in electrical parts such as contactors, air circuit breakers, bus bars, bus bar isolator jawbreakers etc
- Suitable for the permanent lubrication of highly stressed sliding guides with low sliding speeds, oscillating movements or intermittent operation

### || Benefits

- Air drying
- Avoidance of stick-slip and fretting corrosion
- High aging resistance
- Withstands high temperatures up to +500°C
- Provides clean dry film lubrication and does not accumulate dirt or abrasives
- Low coefficient of friction; high surface load and pressure withstanding capacity
- Protects surfaces from wear, galling and seizure
- Oils, grease and solvent resistant
- Offers surface protection from corrosion
- Lubricates under adverse operating environments such as in vacuum or near radiation
- Provides maintenance-free permanent lubrication where oil or grease contamination cannot be tolerated
- Excellent lubricant and highly abrasion-resistant



## MRO 1010-PEN OIL

'MRO 1010-PENOIL' is a fast-acting low surface tension penetrating oil with a convenient 360° all directional valve. Travel against gravity and capillary action. Excellent for hard to reach areas where rust, tar, grease and dirt may prevent easy removal of nuts, bolts and fittings.

### || SKU

- 365 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- The low surface tension of 'MRO 1010 – PENOIL' allows the oil to migrate into tight spaces and along with threaded fasteners
- Makes disassembly of parts possible with savings in time and material, especially where maintenance shutdowns are limited & of short duration
- 360° valve helps the product to be sprayed in any position including inverted

### || Application

- |                         |                    |
|-------------------------|--------------------|
| • Battery cables        | • Nuts & bolts     |
| • Bearings              | • Pipes & fittings |
| • Chains                | • Pulleys          |
| • Conveyors             | • Pumps            |
| • Corroded fasteners    | • Screws           |
| • Equipment disassembly | • Valves           |
| • Hinges                |                    |





## MRO 1011-KLEANER DEGREEZER

'MRO 1011-KLEANER DEGREEZER' a non-chlorinated, fast drying cleaner/degreaser for mechanical cleaning applications as an alternative for chlorinated solvents like CTC, 1,1,1-Trichloroethane.

### || SKU

- 356 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 12 Aerosol cans



### || Benefits

- Removes grease, oil, dirt, dust, sludge
- Non-corrosive, non-conductive & non staining
- Removes tar, adhesives and other tough contaminants
- Leaves no residue
- Safe on metals, most plastics, glass and ceramics
- Non-chlorinated formulation
- Fast penetrating and superior wetting action
- 360° valve allows spraying in any position-even inverted

### || Application

For heavy-duty cleaning/degreasing applications of all mechanical equipment as brakes, chains, gears, bearings, clutches, generators, hand tools, moulds, dies, slides, pumps, forklifts, valves, nuts & bolts, pipes, power tools. Safe for use on all metal surfaces, glass, most plastics and ceramics



## MRO 1012-KORROSION INHIBITOR

'MRO 1012-KORROSION INHIBITOR' is a waxy film type corrosion inhibitor for providing long term indoor and outdoor surface protection for all metals and components for up to 2 years. It is highly resistant to humidity and salt spray and forms a protective shield against rust, moisture, heat and corrosive influences.

### || SKU

- 312gm
- 500ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- The firm waxy film completely seals out moisture
- Prevents formation of rust & corrosion
- Heavy-duty corrosion inhibiting film assures complete rust protection
- Highly resistant to humidity & salt spray
- Provides long term corrosion protection for up to 2 years outdoors
- Removal of the film is possible with MRO 1011 Degreaser

### || Application

'MRO 1012 - KORROSION INHIBITOR' is used for applications involving the protection of metal surfaces in storage, service or shipment for providing long term, heavy-duty corrosion protection as cranks, engine assemblies, bearings, gears, valves, spindles, chains & hoists, wire ropes, steel cables, dies & moulds, lathes, mechanical instruments, precision components, parts in a shipment, auto ancillaries



## MRO 1013-AL KOTE

'MRO 1013-AL KOTE' is a high heat resistant paint coating based on aluminium pigments. It will air dry quickly on applying and will form a long-lasting finish that is resistant to surface temperatures reaching as high as 600°C.

### || SKU

- 340 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Brilliant finish aluminium coating
- Fast air drying
- Protects against rust & corrosion
- Non-corrosive and does not fade, crack or peel
- Useful on interior and exterior applications

### || Application

For all exposed metal surfaces where extreme heat resistance is required. Chimneys, stoves, piping, engines, ovens, steam pipes, kilns, heaters, manifolds, mufflers, incinerators and space heaters



## MRO 1014-ANTI SPATTER

'MRO 1014-ANTI SPATTER' prevents spatter from adhering to surrounding metal surfaces during welding. It is a non-corrosive, non-staining silicone-free anti-stick separation agent. 'MRO 1014 - Anti Spatter' is a formula free from any silicones and enables post-welding treatment as painting or any other industrial metal treatment processes.

### || SKU

- 275 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



'MRO 1014 - Anti Spatter' improves surface finish of equipment and saves valuable time and labour.

### || Benefits

- Eliminates the need for chiseling, grinding or brushing after welding
- Paint Compatible
- Prevents burning of welding spatters on contact tips & work pieces
- Provides the long-lasting anti-adherent effect
- Improves surface finish
- Extends nozzle life
- Does not contain Silicone

### || Application

For prevention of spatter formation on:

- Resistance welding tips
- Mig and Tig tips
- Weldments
- Electrode holders
- Contact tips, tools, metal moulds
- Bench top splash guards





## MRO 1015-SS KOTE

'MRO 1015-SS KOTE' is a high-performance coating designed to protect stainless steel. It air dries fast on application to leave a coating with stainless steel 316L pigments. It is a single component ready to use protective film.

### || SKU

- 340 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

For industrial, mining, construction equipment, piping, storage tanks, structural steels, welding seams on stainless steel



### || Benefits

- MRO 1015 - SS KOTE is a specially designed coating containing stainless steel pigment to provide maximum corrosion resistance and protection against weather, sunlight, oil and water
- Provides a long-lasting, durable film of 100% pure SS 316L pigments
- Excellent outdoor durability
- Fast air drying and adheres well to surfaces
- Single component coating with a satin sheen finish and luster look of stainless steel
- Offers long-lasting corrosion protection
- Does not contain any lead



## MRO 1016-ANTI TRACK KOTE

'MRO 1016-ANTI TRACK KOTE' and protective varnish is a coating with exceptional insulating properties for electrical and electronic equipment to provide surface protection against oils, water, moisture, corrosion, acids, alkalis & temperature variations.

Dry to touch in 15 minutes after application and tack-free within 60 minutes, this fast air drying, flexible coating has excellent adhesion to metal windings.

Class H (180°C)

### || SKU

- 355 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

Use 'MRO 1016 - ANTI TRACK KOTE' protective coating to insulate and seal:

- |                                    |                    |
|------------------------------------|--------------------|
| • Armatures                        | • Insulator bushes |
| • Bus bars                         | • Motor windings   |
| • Ceramic & plastic insulators     | • Rewound motors   |
| • Commutator ends                  | • Stator coils     |
| • End turns on electrical windings | • Terminals        |
| • Generators                       | • Transformers     |

Highly suitable for insulating electrical windings exposed to extreme moisture and corrosive conditions as well as temperature and voltage fluctuations



### || Benefits

- Possesses high dielectric strength and provide surface and volume resistivity for effective insulation of electrical equipment
- The durable and flexible protective film will not peel, crack or age and will protect from shock, abrasion and aggressive chemical environment
- Fast air-drying, stable, single component coating with excellent resistance against oils, chemicals, ageing, moisture condensation, weathering effects
- Seals out moisture with a visible, highly glossy, smooth abrasion-resistant protective coating
- High heat resistant Class H insulation coating will give more allowance for thermal expansion and contraction
- Prevents tracking, corona discharges, flashovers and electrical failures caused by water seepage
- Good adhesion on a variety of substrates
- Oil resistant to ASTM D 115



## MRO 1017-PAINT REMOVER

'MRO 1017-PAINT REMOVER' is a fast-acting blend of solvents for removal of paints, gaskets, adhesives, sealants, lacquers and varnishes.

### || SKU

- 450 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

- Remove paints, adhesives, lacquer and varnish without excessive scraping or damaging the surfaces including wood
- Clean stubborn grease, oil, varnish and carbon deposits from metal surface safely



### || Benefits

- Suitable for removing gaskets and preparing surfaces for gasket installation
- Convenient spray liquid that penetrates and cleans intricate shapes and will not run off, even on vertical surfaces
- Protects surface finish from excessive scraping



## MRO 1018-KARBON KLEANER

'MRO 1018-KARBON KLEANER' uniquely penetrates & 'lifts-off' carbonaceous coatings, thick varnishes, dirt, acrylic coatings, and adhesives. It does not contain acids, caustics or toxic solvents nor any CFC's or odors.

### || SKU

- 450 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Benefits

- Minimizes labour input
- It is a safe alternative to toxic products/ abrasives
- User & surface safe product



### || Application

- Used for removal of Carbon deposits from make-break contactors, relays, commutators, insulators, bus-bars.
- Removing varnishes & adhesives when overhauling electric motors, cleaning flash over residues
- Removes acrylic conformal coatings from PCB cards



## MRO 1019-ANTISIEZE COMPOUND

'MRO 1019-ANTISIEZE COMPOUND' provides a thin film that lubricates, reducing friction and wear under extreme temperatures and pressures.

### || SKU

- 312gm
- 500ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Benefits

- This product eliminates galling, corrosion, and overall seizure
- Stops galvanic pitting
- Protects under conditions of extreme heat exposure and pressure
- Virtually unlimited applications under extreme conditions



### || Application

Use on stud assemblies, flange bolts, cylinder heads, high-temperature connections, and manhole lug. Do not use on the electrical equipment or machinery when in operation





## MRO 1020-BRITE GALVA

'MRO 1020 – BRITE GALVA' is a high-performance zinc coating designed to provide galvanic corrosion protection to metals and stop rusting and rust creepage. It air dries fast on application to leave a high purity zinc film that is highly resistant to heat, water, corrosion and saline environments. It bonds electrochemically to bare metals without requiring any baking and offers maximum protection against corrosion under severe conditions.



### Benefits

- Repairs damaged hot-dip galvanized surfaces
- Fast air-drying and offers protection of hot-dip galvanizing
- Very high purity zinc in film
- Brilliant metallic finish to that of hot-dip galvanizing
- Highly abrasion-resistant film does not peel off
- Offers long-term protection
- Prevents rust & corrosion

### Application

- Structural steels
- Transmission towers
- Welding seams
- Bridges
- Relay towers
- Piping & ducting
- Offshore equipment
- Nuclear & power plants
- Antennas
- Metal fabrication
- Industrial maintenance
- Touch up to damaged galvanized coatings

### SKU

- 368 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### Bulk version available on request:

MRO 3020 BRITE GALVA, 16 kg Case Pack (4 kg x 4 nos)



## MRO 1021-BATTERY TERMINAL KLEANER

'MRO 1021 – BATTERY TERMINAL KLEANER' instantly detects leaks and neutralizes the acid. By just spraying on and rinsing off will remove all corrosion and sulfation and increase the life and reliability of batteries.

### SKU

- 475 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### Benefits

- Cleans battery terminals and connectors quickly to remove corrosion
- The heavy-duty foaming formula turns from yellow to pink in contact with acids
- Indicates battery acid leak and neutralizes dangerous acid leakage
- The water-soluble, non-flammable formula rinses off with water
- Helps maintain maximum battery current flow and increases output
- Reduces voltage leakage
- Extends reliability, life and performance of batteries

### Application

Cleaning of corrosion deposits & acid neutralization on:

- Battery terminals
- Battery brackets
- Battery casings
- Cable connectors





## MRO 1022-BATTERY TERMINAL KOTE

'MRO 1021 – BATTERY TERMINAL KOTE' is for protecting battery terminals from corrosion and sulfation, a leading cause of hard starting and battery failure.

It is highly resistant to high humidity and salt spray and forms a protective waxy shield against rust, moisture, heat and corrosive influences. It is safe for use on all metal, rubber, plastic and paint finishes and is ideal for use as a heavy-duty corrosion protective coating.



### Benefits

- The waxy, acid-resistant film completely seals out moisture
- Protects battery and cable terminals from corrosion and acid sulfation
- Heavy-duty corrosion inhibiting film assures complete rust protection and prolongs battery life
- Translucent reddish-brown colour provides easy visual inspection
- Maximizes performance & reliability of equipment
- The soft, waxy, pliable coating does not crack or peel even under severe operating conditions as heat, vibratory shocks, weathering influences
- Prevents hard starting, current loss and battery failure by assuring continual voltage output

### Application

It is useful for protecting batteries used in emergency back-up systems, vehicles, boats, handling equipment and UPS

- Battery posts
- Battery terminals
- Battery hold-downs and casings

### SKU

- 360 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



## MRO 1023-KLEAR KOTE

'MRO 1023 –KLEAR KOTE' provides a tough, transparent coating to a variety of surfaces. Creates a protective, yet smooth, lustrous finish. It is an excellent weatherproof coating that provides long-lasting protection against wear, handling, and oxidation.

### SKU

- 375 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### Benefits

- Protects against rust, corrosion, tarnish, oxidation, moisture and weathering influences
- Provides a high-gloss, clear protective finish that remains transparent and does not fade or become yellow
- Provides a protective and insulating film that shields printed circuit boards from electrical leakage and short circuits
- Prevents sparking and corona discharges
- Non-conductive and has good dielectric properties
- Excellent resistance to weak acids & alkalis, water, oils and chemical fumes
- Easily solderable and very convenient for onsite repair jobs

### Application

- It is useful in insulation and protection of all electrical, electronic and high-tech equipment of general electronics, printed circuit boards, thick film circuits, high voltage transformers, electrical motor coils, cables and wires
- It moisture proofs and prevents corrosion of industrial, automotive, aviation, marine, military electrical and electronic hardware
- Useful on brass fixtures, tubing, machine parts and as a protective film to prevent oxidation
- It will adhere to metals, wood, and paper



## MRO 1024-H<sub>2</sub>O DISPLAZER

'MRO 1024-H<sub>2</sub>O DISPLAZER' is a distinctive formulation heavier than water & is also an ultra-thin, protective, flexible, non-toxic, non-flammable, dielectric, inert, electrical grade lubricant cum corrosion inhibitor for displacing water. It improves electrical equipment performance by moisture proofing, salvaging and protecting even if completely submerged or damaged by water. Specific gravity > 1

### || SKU

- 510 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



INDUSTRIAL AEROSOLS

### || Benefits

- It will displace water from electrical and electronic components due to its unique heavier than water formula and improves dielectric properties
- It forms a barrier against moisture condensation and humidity and will prevent electrical malfunctions such as flashovers, electrical shorts and current leakage
- Rapidly penetrates to displace trapped water/moisture to dry wet systems and cleans tough build-ups of grease, oil, gum, dirt, grime and contaminants to leave new, clean lubrication
- High-performance penetration quickly frees frozen and corroded mating parts
- Safe for use on metals and does not harm plastics, rubbers or other insulation materials
- Contains safe, non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted

### || Application

Use for cleaning, removing moisture, moisture proofing, protection and restoration of electrical equipment such as:

- |                         |                |
|-------------------------|----------------|
| • Bus bars              | • Rheostats    |
| • Circuit breakers      | • Solenoids    |
| • Electrical connectors | • Starters     |
| • Fuses                 | • Switch gears |
| • Generators            | • Transformers |
| • Ignition systems      |                |
| • Motors                |                |
| • Potentiometers        |                |
| • Relays                |                |



## MRO 1025-WIRE ROPE LUBE

'MRO 1025-WIRE ROPE LUBE' is an eco-friendly lubricant with excellent performance qualities to extend the life of wire rope and promote safe and reliable operations.

### || SKU

- 330 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



INDUSTRIAL AEROSOLS

### || Benefits

- This product reduces wear and noise, waterproofs, and penetrates deep into metal pores for complete lubrication
- It protects against rust and corrosion in both indoor and outdoor environments
- This lubricant withstands extreme temperatures and pressure
- Will not become brittle or breakdown under prolonged use. Does not weather or wash away
- It improves the fatigue life of wire ropes
- Ease of application as the lubricating oil has better flow and penetration properties than a grease

### || Application

- Wire rope
- Exposed gears
- Winches
- Roller chains
- Elevator cables
- Conveyor rolls
- Draglines
- Suitable for lubrication and superior mastic properties





## MRO 1026-CHEMPROOF

'MRO 1026-CHEMPROOF' is a brown coloured ultimate solution for outdoor metal protection.

### || SKU

- 360 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Chemical resistant coating
- Excellent wastewater and sulphuric acid resistance
- Suitable for pipeline operating temperatures to 180°C
- Resistant to thermal shocks and freeze-thaw cycles
- Resistant to seawater
- Can be applied directly on prepared substrate without using a primer
- Smooth, glossy, easy to clean surface
- Easy to apply as it is an aerosol

### || Application

- Acid fume proof roofing
- Boiling water tanks
- Buried tanks and vessels
- Desalination plants
- Offshore risers, piles
- Pipelines, fittings, valves
- Solvent extraction systems
- Water treatment plants
- Wastewater pipes and other steel structures in need of a high-performance protection



## MRO 1027-BUSBAR KOTE LT

'MRO 1027 BUSBAR KOTE LT' is electrical insulation coating in aerosol form

### || SKU

- 355 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### || Benefits

- Possesses high dielectric strength, surface and volume resistivity, which provides an effective insulation of electrical equipment
- The durable and flexible protective film will not peel, crack or age and will protect from shock, abrasion and aggressive chemical environment
- Fast air-drying, stable, single component coating with excellent resistance against oils, chemicals, ageing, moisture condensation, weathering effects
- Seals out moisture with a visible, highly glossy, smooth abrasion-resistant protective coating
- High heat resistant (180°C) insulation coating will give more allowance for thermal expansion and contraction
- Prevents tracking, corona discharges, flashovers and electrical failures caused by water seepage
- Good adhesion on a variety of substrates
- Can be used to insulate any intricate shape like nut, bolts, threads etc
- Dielectric strength 2200V/mil

### || Application

- Sub Stations
- Switchgear panels support structure guards against animal caused flashovers
- Busbars
- Transmission Towers



## MRO 1031-DPT CLEANER

'MRO 1031-DPT CLEANER' is a solvent based cleaner used for visible liquid penetrant inspection process.

### || Benefits

- No residue and better penetration action
- Lower order and user friendly
- Fast action hence lower process time

### || SKU

- 315 ml (Net)
- 500 ml (Gross)
- Units per case: 24 Aerosol cans

**|| Application** Used in the inspection and detection of weld-cracks, shrink-cracks, casting cracks and porosity



## MRO 1032-DPT PENETRANT

'MRO 1032-DPT PENETRANT' is formulated to exhibit outstanding penetrating characteristics which provide for increased reliability of discontinuity identification. Due to its high flash point, it can be useful even in open areas.

### || SKU

- 300 ml (Net)
- 500 ml (Gross)
- Units per case: 24 Aerosol cans

### || Benefits

- Vivid red and offers high contrast
- High Flashpoint hence safe to use in open areas
- High sensitivity - detects fine cracks
- Non-halogenated – safe on all metals

### || Application

Used in the inspection and detection of weld-cracks, shrink-cracks, casting cracks and porosity



## MRO 1033-DPT DEVELOPER

'MRO 1033-DPT DEVELOPER' is a solvent based developer used in visible type liquid penetrant inspection process. Formulated with micronized minerals, 'MRO 1033 – DPT DEVELOPER' provides easily suspend able, thin smooth layer, in combination with 'MRO 1032 – DPT PENETRANT', it gives high contrasting, clear indications.

### || SKU

- 315 ml (Net)
- 500 ml (Gross)
- Units per case: 24 Aerosol cans

### || Benefits

- Brilliant white and high contrast
- Non halogenated and safe on all metals
- High area coverage hence less consumption

### || Application

Used in the inspection and detection of weld-cracks, shrink-cracks, casting cracks and porosity



## MRO 1036-PUF SEALANT

'MRO 1036-PUF SEALANT' is a single component self-expanding polyurethane foam.

### || SKU

- 750 ml
- Units per case: 24 Aerosols

### || Application

- Perfect sealant for cable entries from walls, electric switchboards, panel boards
- Ideal for telecom towers and power supply panel boards
- Great for making model, sand plate, repair of show board in advertising field
- Best suited as a sealant in speech room and broadcasting studio for insulation and absorption of sound
- Daily maintenance like repairing of hole or gap in wall brick or earth brick
- Excellent for mending hole in water pipe
- Highly recommended for packing valuable and fragile goods to provide shock resistance
- Installation of window and door frames
- Filling of cavities
- Sealing of all openings in roof constructions
- Creation of a soundproof screen
- Mounting and sealing of window and door frames
- Connecting of insulation materials and roof constructions
- Application of soundproofing layers on motors
- Improving thermal insulation in cooling systems

### || Benefits

- Excellent adhesion on most substrates (except Teflon, PE and PP)
- High thermal and acoustical insulation
- Very good filling capacities
- Excellent mounting capacities
- Easy to use
- Automatic spray
- Automatic expansion helps in filling all gaps
- Air humidity cure mechanism
- No pre treatment required for surface
- Good viscosity (especially on wet surface)



## MRO 1040-GALVA SHINE

'MRO 1040-GALVA SHINE' is a high-performance zinc coating designed to provide true galvanic corrosion protection to metals and stop rusting and rust creepage. 'MRO 1040-GALVA SHINE' does not contain any chlorinated solvents, CFCs or ozone-depleting chemicals.

### || SKU

- 375 gm
- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans

### || Application

- Touch-up of parts after hot dip galvanizing.
- Touch-up of galvanized equipment after repair
- Chains
- Structural steels
- Transmission towers | Electrical Switch yard
- Welding seams
- Bridges
- Relay towers
- Piping & ducting
- Offshore equipment
- Nuclear & power plants
- Antennas
- Metal fabrication
- Industrial maintenance

### || Benefits

- Excellent touch-up for galvanized surfaces
- Repairs damaged hot-dip galvanized surfaces
- Fast air-drying and offers protection of hot-dip galvanizing
- Very high purity zinc in film
- Brilliant metallic finish to that of hot-dip galvanizing
- Highly abrasion-resistant film does not peel off
- Offers long-term protection
- Prevents rust & corrosion





## MRO 1050-ON-LINE ELECTRISAFE

'MRO 1050 ON-LINE ELECTRISAFE' is formulated especially for use on sophisticated equipment. (This fast-drying contact cleaner is non-flammable, non-conductive does not leave any residue and is non-toxic.) It is a blend of high purity cleaners designed to clean electrical contacts and switches even on-line.

'MRO 1050 On-line Electrisafe' is safe to use on most plastics, metals, rubbers, elastomers & other insulating material and does not contain any Chlorofluorocarbons (CFCs), chlorinated solvents or any ozone-depleting chemicals. Formulated with non-flammable, safe, CO<sub>2</sub> propellant

### Benefits

- Within 11000 V it removes dust without interrupting the power supply
- It is non-flammable - It can turn off the fire on spraying in case of electrical fire such as Spark or Arc
- Can be useful safely for all electronic & electrical parts on-line
- Neutralize electrostatic particles
- Cleaning liquid flows down along with dust and can accumulate in an absorber sheet
- It contains safe non-flammable CO<sub>2</sub> propellant
- 360° valve helps the product to be sprayed in any position including inverted
- It has very low surface tension and quickly penetrates minute crevices, cracks or pores to clean the surfaces and safely rinses off light oils, dust, fingerprints, silicones, oxides, carbon or moisture

### Application

Contacts, controls, relays, PCB's, switches, motors, connectors, generators, ignition systems, terminals, sensors, circuit breakers, plugs & sockets, fuse boxes, transformers, switchgear, bearings, generators, gears, tuners, busbar, connectors, potentiometers, solenoids, capacitors, communication equipment, oxygen systems, electrical equipment, electronic equipment, aviation equipment, industrial equipment

### SKU

- 500 gm (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



## MRO 1060-FREEZE PENOIL

'MRO 1060 - FREEZE PENOIL' is a rust loosener with freeze shock effect.

When sprayed onto a rusted nut bolt connection, the rust cools down (-40°C) and cracks, leaving small fissures. The active liquid will rapidly penetrate into those small openings and blocked parts are separated easily.

### Benefits

- Freezing action cracks the layer of rust and dirt
- Penetrates quickly & loosens metal parts seized by dirt, corrosion or dried-up grease
- Safe on all metal surfaces, does not stain
- Safe on most rubbers, plastics and coatings
- Convenient 360° (including inverted position) spray valve

### Application

- Cleaning mechanical parts
- Handling equipment
- Seized and corroded parts
- General disassembly

### SKU

- 500 ml (Net)
- 650 ml (Gross)
- Units per case: 24 Aerosol cans



### Benefits

- It can be diluted with water and so economical
- Can use heated or at room temperature
- Non-toxic and non-flammable cleaning product
- Does not contain ozone-depleting chemicals or compounds (OCDs)
- It aggressively attacks and removes grease, oil, dirt, sludge and other light contaminants and allows to be rinsed off with water

## MRO 2000-BIO-DEGRADABLE KLEANER

'MRO 2000-BIO-DEGRADABLE KLEANER' is a chemical compound that transforms ordinary water into super-efficient, super-effective universal cleaning solution. It is an Industrial strength, all-purpose, concentrated cleaner and degreaser specially-made for pressure spraying, wipe down and immersion cleaning procedures.

- || **SKU** • 5 L (Units per case: 4 numbers)  
 • 25 L • 200 L

### Application

Suitable for mechanical components washing and degreasing applications to remove ink, oil, mildew, tar, soot, wax, carbon and grease from:

- Bearings
- Carpets
- Castings
- Concrete floors
- Engines
- Machinery
- Motors
- Tanks
- Valves
- Windows

### WATER DILUTION RATIOS

- HD Cleaning 1:1
- MD Cleaning 1:20
- LD Cleaning 1:50
- LD Pressure Cl. 1:100



### Application

It is suitable for cleaning / degreasing applications of engines, machinery and other mechanical heavy equipment like brakes, chains, fuel and oil tanks, gears, bearings, clutches, generators, hand tools, molds, dies, slides, pumps, forklifts, valves, nuts & bolts, pipes, power tools

## MRO 2003-NON-CHLORINATED aq KLEANER 79

'MRO 2003-NON-CHLORINATED aq KLEANER 79' is a concentrated Multi-Purpose Cleaner. A highly effective chemical compound consists of special additives that transform ordinary water into an effective cleaning solution.

### Benefits

- Removes baked grease, oil, dirt, dust, sludge
- Non corrosive, non-conductive & non staining
- Removes tar, adhesives and other tough contaminants
- Leaves no residue
- Safe on metals, most plastics, glass and ceramics
- Non chlorinated formulation
- Fast penetrating and superior wetting action

- || **SKU** • 5 L • 25 L • 200 L



### Benefits

- Removes grease, oil, dirt, dust, sludge, inks
- Non-corrosive & non-staining
- Removes tar, adhesives and other tough contaminants
- Leaves no residue

## MRO 2006-NON CHLORINATED KLEANER

'MRO 2006 - NON-CHLORINATED KLEANER' is a low odour, high flash point, heavy-duty cleaner/degreaser which rapidly penetrates through grease, oil, dirt, dust and other contaminants and cleans equipment fast.

### Application

For heavy-duty cleaning/degreasing applications of all motors, terminals, transformers, switchgear, tuners, busbars, relays, controls, printed circuit boards, electrical, electromechanical and mechanical equipment as brakes, chains, gears, bearings, clutches, generators, hand tools, mould, die, slides, pumps, forklifts, valves, nuts & bolts, pipes, power tools



### SKU

- 5 L (Units per case: 4 numbers)  
 • 25 L • 200 L

- High dielectric strength
- Safe on metals, plastics and similar electrical insulation materials
- High flashpoint reduces the potential risk of fire
- Non-chlorinated, low odour formulation
- Fast penetrating and superior wetting action



## MRO 3000-CHEMPRO

'MRO 3000-CHEMPRO' is two-pack, ultimate chemical resistant and corrosion protecting high-build solvent-free novolac epoxy coating for steel and concrete. Novolac functionality and high cross-linking density in 'MRO 3000-Chempro' will make it a barrier coating or lining for acids, alkalis, organic solvents, or many chemicals used in the process. Bonds mechanically and chemically to the substrate.



### Benefits

- High temperature and chemical resistant high build coating
- No VOC. 100 % solids superior Novolac polymer system
- Excellent cathodic disbondment characteristics
- Good wastewater and sulphuric acid resistance
- Suitable for pipeline operating temperatures to 120°C
- Resistant to thermal shocks and freeze-thaw cycles
- Abrasion and corrosion resistant
- Resistant to seawater
- Can be applied directly on a prepared substrate without using a primer
- Smooth, glossy, easy to clean surface
- Easy to apply solvent-free the formulation makes it suitable for use in confined spaces

### Application

- Acid fume proof roofing
- Boiling water tanks
- Buried tanks and vessels
- Desalination plants
- Offshore risers, piles
- Pipelines, fittings, valves
- Solvent extraction systems
- Water treatment plants
- Waste water pipes and other steel structures in need of high-performance protection

### SKU

- 5 Kg
- Units per case: 4 numbers
- No. of part/s: 2 Part

**Coverage / SKU  
@ Thickness**  
6.5 sq. m | 500 µ



## MRO 3002-GLASS FLAKE REINFORCED EPOXY

'MRO 3002 - GLASS FLAKE REINFORCED EPOXY' is a high performance two-component high build, 100% solid surface tolerant epoxy coating reinforced with chemically inert glass flake for application for enhanced durability and corrosion resistance. It has excellent erosion resistance, abrasion resistance, toughness and outstanding impermeability. The coating produces a high gloss and low friction surface.

### SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

**Coverage / SKU  
@ Thickness**  
1.389m<sup>2</sup> / kg /  
500 µ / 2 Coats

### Benefits

- Superior Surface Wetting Properties and Corrosion Resistance
- High-Performance Maintenance Coating for new or existing Steel
- Excellent Barrier for immersion or Splash zone & submerged surfaces
- Ideal maintenance coating over most well adhered aged coatings
- Improves the efficiency of fluid handling systems

### Application

- Internal coating of MS/CS firewater piping & fittings
- It is a maintenance painting for Drilling Rigs and Platforms Fertilizer Plants, Chemical Factories, Refineries, Petrochemical units, Railway Bridges, Marine & Port Installations
- It is a coating suitable for cargos of Petroleum crude products and Aromatic Hydrocarbon solvents
- It has high Corrosion resistance for internal lining of Steel Storage Tanks used in Refinery, Petrochemical, Fertilizer, Chemical and other plants
- It is an excellent maintenance coating for offshore and onshore installation subject to highly humid and saline condition
- Uses include steel structures in industrial plants, bridges, tank exteriors, oil tanks, pipelines, marine atmosphere, Splash Zones, cooling towers, etc
- Good resistance to spillage and fumes of acids, alkalis, fresh and salt water





## MRO 3003-BRUSHABLE CERAMIC

'MRO 3003-BRUSHABLE CERAMIC' is a high performance, high-density ceramic filled Brushable epoxy to seal and protect new or repaired surfaces from cavitations, pitting, erosion and wear.

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part



### || Benefits

- Superior adhesion-forms a solid bond
- Improves the efficiency of fluid handling systems
- Excellent alkalis, acids and chemical resistance
- Good Electrical Insulation characteristics
- Ultra smooth Brushable consistency self-leveling liquid so it can be applied easily with short-bristle brush or roller

### || Application

- Seal & Protect new equipment exposed to erosion & corrosion
- Rebuild heat exchangers, tube sheets and other circulating water equipment
- Lining tanks and chutes
- Protects pump casings, impeller blades, gate valves, water boxes and fan blades
- Butterfly valves
- Pipes

### || Coverage / SKU @ Thickness

1 m<sup>2</sup> | 350 µ / 2 Coats.



## MRO 3004-SUPER GLIDE

'MRO 3004-SUPER GLIDE' two-part epoxy Coating designed to improve the efficiency of pumps, pipes, valves and other fluid handling equipment while protecting them from the effect of erosion and corrosion. This high-performance product is proven to reduce energy consumption, provide excellent chemical resistance and lower maintenance costs.



### || Benefits

- It has excellent chemical resistance against a wide range of chemicals
- Long term erosion & corrosion protection
- It has excellent bonding to metal including stainless steel, duplex steels, carbon steels, aluminium, cast iron & bronze as well as specialist alloys of other materials
- Excellent Barrier for immersion or splash zone & submerged surfaces
- Improves the efficiency of pumps, pipes, valves & other equipment

### || Application

- It enhances the performance of centrifugal Pumps & positive displacement pumps
- Protecting pump volutes & impellers from erosion & corrosion
- Long term corrosion protection of tube sheets heat exchangers, water boxes & water tanks
- Internal pipe coatings to increase fluid flow
- Reducing material hang-up in chutes & hoppers
- Erosion resistant coating for leading-edge protection on wind turbine blades

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Coverage / SKU @ Thickness

1.389 m<sup>2</sup> / kg / 500 µ / 2 Coats.



## MRO 3007-BRUSHABLE FLEX

'MRO 3007-BRUSHABLE FLEX' is a two-pack system that protects against corrosion, abrasion, shock, wear, noise and impact. Once combined (No Part Mixing), the base and solidifier form a tough, but highly flexible, elastomeric protective Rubber Coating. The Packing includes Metal Primer / Rubber Primer / Accelerator.

### || SKU

- 500 gm Container • Units per case: 6 numbers

### || Benefits

- Two part compound mixes easily
- Room temperature curing / no heat required
- Liquid pours evenly and self-levels
- 10-hour demoulding time with low shrinkage
- Shield from solid particle impingement

### || Application

- Encapsulate wire and electronics subject to impact, vibration, expansion and contraction
- Rubber Repairs
- Forms protective, sound-deadening linings on new and in-service equipment

### || Coverage / SKU @ Thickness

0.470 sq. m @ 1mm/  
 0.5 kg | 940 sq. m @  
 1mm/ kg



## MRO 3013S-HT KOTE SG 600 / HT KOTE SG 300

'MRO 3013S-HT KOTE SG 600 / HT KOTE SG 300' is a Single-Pack, self-priming, high temperature resistant coating.

Maximum Operating  
**Temperature:**

- a) 600°C
- b) 300°C



### || Benefits

- Excellent Resistance to high Temperature
- Excellent Resistance to Oxidation
- Excellent Resistance to UV Radiation
- Excellent Resistance to Chemical Attack
- Excellent Scratch & Abrasion Resistance

### || Application

It is used to protect the metal components & structures in the most aggressive conditions at elevated temperatures.

- Chimney
- Under Insulation Installations
- Oven
- DG Set
- Exhaust Pipes
- High heat areas
- Corrosion under insulation
- Kiln
- Pre heater
- Engine parts
- Silencers

### || SKU

- 20 L | 5 L

|| Coverage 2.5 – 2.75 m<sup>2</sup> /  
 L @ 80 µ **Thickness**



## MRO 3014-NF WATERBASED ANTI SPATTER

'MRO 3014-NF WATER BASED ANTI SPATTER' is water-based, silicone-free, anti-stick separation agent for preventing adherence of spatter to welding surfaces. Formulated with special synthetic release agents, it prevents burning of welding spatter on contact tips and work pieces thereby, eliminating the need for chiseling, grinding or brushing after welding. 'MRO 3014 – NF WATER BASED ANTI SPATTER' improves the surface finish of equipment and saves valuable time and labour. It does not contain any silicones or ozone depleting chemicals and is paintable thereby enabling post-welding treatment as painting or any other industrial metal

treatment processes. 'MRO 3014 NF WATER BASED ANTI SPATTER' outperforms aerosol-based spatter release agents and besides the economy adds to the safety of usage as it contains no flammable solvents or propellants.

### || Benefits

- Prevents burning of welding spatters on contact tips & work pieces
- Provides long lasting anti adherent effect
- Improves surface finish
- Extends nozzle life
- Silicone free

### || Application

For prevention of spatter formation on:

- Nozzles
- Weldments
- Torches
- Contact tips, tools, metal moulds
- Jigs

### || SKU

- 30 L



## MRO 3023-HT CERAMIC KOTE

'MRO 3023-HT CERAMIC KOTE' is a high performance two component high temperature ceramic composite coating system recommended for sealing and protecting equipment from cavitations, pitting, erosion, corrosion and wear under typical temperature range for +120°C in wet conditions (+287°C in dry conditions).

### || SKU

- 1 Kg
- Units per case: 12 numbers

### || Coverage /SKU @ Thickness

0.350 sq. m / kg / 500 µ / Coat

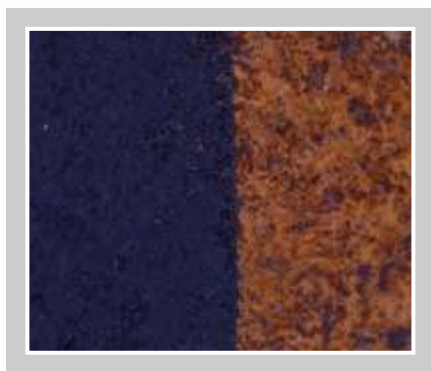
### || Benefits

- Superior adhesion-forms a solid bond
- Improves the efficiency of fluid handling systems
- Excellent alkalis, acids and chemical resistance
- Good Electrical Insulation characteristics
- Ultra smooth Brushable consistency self-leveling liquid so it can be applied easily with short-bristle brush or roller

### || Application

- High temperature lining for process vessels, distillation columns, heat exchangers, condensers, clarifiers and scrubber units operating under immersion.
- Lining tanks and chutes.
- Protects pump casings, impeller blades, gate valves, water boxes and fan blades.
- Butterfly valves
- Pipes
- Seal & Protect new equipment exposed to erosion & corrosion





## MRO 3030-RUST CONVERTER

'MRO 3030-RUST CONVERTER' is solution or primer designed to be applied directly to a rusty surface to convert residual rust on steel surfaces to a harmless and adherent chemical compound. Unlike the standard scrape, prime, and paint regime, the user does not have to bring the substrate down to the bare metal. These, in turn, can develop a protective film on the metal surface that protects against rust.

### || SKU

- 5 L
- Units per case: 4 numbers

### || Coverage/SKU @ Thickness

825 Sq Ft / @ 9  $\mu$   
No of Part/s: 1

### || Benefits

- MRO 3030 Rust Converter chemically reacts and converts rust into a stable, black protective polymeric coating that serves as an excellent primer where surface preparation is not possible due to safety hazard

### || Application

Can be used on any rusty iron or steel object



|| **Drum Pack available on request:** MRO 3030 RUST CONVERTER, 200 Ltr



## MRO 3031-INPRO

'MRO 3031-INPRO' is a two part solvent-less high build dielectric protective coating suitable for both steel & concrete surfaces.

### || SKU

- 5 Kg
- Units per case: 4 numbers

### || Coverage/SKU @ thickness

7.4 / Sq. m / 500  $\mu$  / 5 Kg

### || Benefits

- Excellent cathodic disbondment characteristics
- Resistant to thermal shocks
- Abrasion and corrosion resistant
- Resistant to sea water
- Can be applied directly on prepared substrate without using a primer
- Smooth, glossy, easy to clean surface
- Compatible with all substrates. It can be applied directly on to mild steel and concrete
- Proven against a wide range of industrial chemicals
- High dielectric strength (208 Volt/mil)

### || Application

- Waste Water Plants
- Drinking Water Systems
- Pipelines & Valves Ducting Systems
- Cooling Towers
- Process Tanks & Vessels
- Seawater Cooling Systems
- Dielectric Flooring
- Bus bar
- Metal support structures & bushings where sufficient electrical insulation is required to protect against animal caused flashovers



## MRO 3035-KORROSION INHIBITOR-BULK

'MRO 3035-KORROSION INHIBITOR-BULK' is a firm waxy film type corrosion inhibitor for providing long term indoor and outdoor surface protection for all metals and components for up to 2 years. It is highly resistant to humidity and salt spray and forms a protective shield against rust, moisture, heat and corrosive influences.

'MRO 3035-KORROSION INHIBITOR-BULK' is safe for use on all metals, rubbers, plastics and paint finishes and is ideal for use as a heavy-duty corrosion protective coating for parts in storage or during shipment. It does not contain any chlorinated solvents, CFCs or any ozone depleting substances. Meets requirements of Military Standards MIL-C-16173 Gr.4

### || Benefits

- Firm waxy film completely seals out moisture
- Prevents formation of rust & corrosion
- Heavy duty corrosion inhibiting film assures complete rust protection
- Highly resistant to humidity & salt spray
- Provides long term corrosion protection for up to 2 years outdoors
- Removal of the film is very easy with any industrial solvent based degreaser

### || Application

'MRO 3035-KORROSION INHIBITOR-BULK' can be used for applications involving protection of metal surfaces in storage, service or shipment for providing long term, heavy-duty corrosion protection as: cranks, engine assemblies, bearings, gears, valves, spindles, chains & hoists, wire ropes, steel cables, dies & moulds, lathes, mechanical instruments, precision components, parts in shipment, auto ancillaries

### || SKU

- 5 L
- 30 L
- Units per case: 4 numbers

### || Coverage

15-20 sq. m / L



## MRO 3098-PRIMER ZINC

'MRO 3098-PRIMER ZINC' is a SINGLE-PACK, barrier coating based on high performance Zinc and specialty functional additives to protect metal surfaces in most aggressive conditions in combination with top coat systems based anticorrosion protective coating.

### || SKU

- 20 L | 5 L

|| Coverage 2.75 m<sup>2</sup> / L @ 80 μ  
 Thickness (2 Coats)

### || Benefits

- Single pack system
- Excellent Corrosion Resistance
- Quick Drying
- Excellent Outdoor Stability
- Excellent resistance to moisture
- Impermeability to Oxygen
- Excellent adhesion to multi metal substrates.
- Salt spray life -1000 hrs. (ASTM BS- 117)

### || Application

A universal formulation specifically designed for use in various environmental situations. To be used on steel in combination with top coat systems. It exhibits excellent adhesion properties with base metal surfaces. Offers excellent performance in salt and fresh water with its moisture resistant properties. 'MRO 3098 PRIMER ZINC' offers excellent Aging & weathering resistance coupled with resistance to chemicals and is used as base coat to top coat systems to protect the metal components & structure in the most aggressive conditions



## MRO 3099-ANTI COR 11

'MRO 3099-ANTI COR 11' is a single-pack, high performance grafted co-polymer based anticorrosion protective coating.

### Application

A universal formulation specifically designed for use in various environmental conditions. To be used on steel alone or in combination with various systems. It also gives a desired finish. ANTI COR 11 offers excellent aging & weathering resistance coupled with resistance to chemicals and is used to protect the metal components & structures in the most aggressive conditions

### SKU

• 20 L

### Coverage

2.75 sq. m /L  
@ 80  $\mu$  Thickness

### Benefits

- Single pack system
- Excellent Corrosion Resistance
- Quick Drying
- Excellent Outdoor Stability
- Excellent resistance to UV radiations and chemicals.
- Withstand salt spray test for 1000 hrs
- Can be applied by Brush/Spray/Roller
- Available in all RAL shades
- Thermal stability upto 200° C



## MRO 3040-ZINC RICH GALVANIZED COATING

'MRO 3040- ZINC RICH GALVANIZED COATING' is a weather resistant high performance cold galvanized coating system which may be applied in place of Hot Dip Galvanized process. Passes Salt Spray Resistance 1000 HRS (At 80  $\mu$  DFT)) ASTM B 117

### Benefits

- Excellent Corrosion Resistance
- Quick Drying
- Excellent Resistance to Abrasion
- Excellent Outdoor Stability
- Excellent resistance to UV radiations and chemicals

### Application

It is specifically designed for use in aggressive environmental situations. To be used on steel alone to give long term corrosion protection. 'MRO 3040-ZINC RICH GALVANIZED COATING' offers excellent aging & weathering resistance coupled with resistance to chemicals and is used to protect the metal components & structure in the most aggressive conditions.

### SKU

• 20 L

• Coverage 2.5 m<sup>2</sup> /L  
@ 80  $\mu$  Thickness



## MRO 3050-CRACK FILLING SEALANT

'MRO 3050-CRACK FILLING SEALANT' is a SINGLE-PACK, high performance Polymer based crack filling sealant/putty

### SKU

• 20 kg | 5 kg

### Coverage

(10 Running meter/kg)

### Benefits

- Single pack system
- Excellent crack filling property
- Excellent Corrosion Resistance
- Quick Drying
- Excellent Outdoor Stability
- Excellent resistance to UV radiations and chemicals.

### Application

A universal formulation specifically designed for use in various environmental conditions. MRO 3050 CRACK FILLING SEALANT is a high built sealant/putty used to level the surfaces, unwanted openings, and cracks, joints for various substrates like concrete, metals & plastics





## MRO 3100-CHEMPRO CRC 29

'MRO 3100-CHEMPRO CRC 29' is a single-pack, chemical resistant, high performance finish coat suitable to be applied to the substrates needing resistance to corrosive chemicals in varied climatic conditions.

### || SKU

- 20 L

|| **Coverage** 2.25 sq. m / L  
@ 80  $\mu$  **Thickness**

### || Benefits

- Can be applied directly on prepared substrate without using a primer
- Excellent Chemical Resistant
- Excellent Corrosion Resistant
- Quick Drying
- Excellent Resistance to Abrasion
- Excellent Resistance to Oils at elevated temperatures
- Excellent Outdoor Stability

### || Application

- Acid fume proof roofing
- Buried tanks and vessels
- Desalination plants
- Offshore risers, piles
- Pipe lines, fittings, valves
- Solvent extraction systems
- Water treatment plants
- Waste water pipes and other steel structures in need of a high performance protection



## MRO 3101-MAF

'MRO 3101-MAF' is a SINGLE-PACK, high performance Anti Fouling Marine grade anticorrosion protective coating. Passes Salt Spray Resistance 1000 HRS (At 80  $\mu$  DFT) ) ASTM B 117

### || SKU

- 20 L

|| **Coverage** 2.5 m<sup>2</sup> / L  
@ 80  $\mu$  **Thickness**

### || Benefits

- Self Anti Fouling property
- Single Pack System
- Quick Drying at ambient temperature
- Excellent Resistance to Abrasion
- Excellent Resistance to Acids, Alkalies and corrosive chemicals
- Excellent Outdoor Stability
- Excellent Aging & weathering resistance
- Gives a desired cosmetic finish
- Excellent corrosion protection in both salt and fresh water

### || Application

- Used to protect the metal components & structure in the most aggressive marine conditions.
- Fishing Boats
- Dinghy Boats
- Deck Boats
- Catamaran Boats
- Cuddy Cabins Boats
- Centre Console Boats
- Houseboats
- Offshore Ships



## MRO 3102-ANTI GRAFFITI KOTE

'MRO 3102-ANTI GRAFFITI' is a SINGLE-PACK Anti-Graffiti, high performance Coating. Passes Salt Spray Resistance 1000 HRS (At 80  $\mu$  DFT) ASTM B 117

### Benefits

- Excellent Corrosion Resistant
- Quick Drying
- Excellent Resistance to Graffiti
- Excellent Resistance to Acids (20 %); Alkalis (20 %)
- Excellent Resistance to Fire
- Excellent Outdoor Stability

### SKU

- 20 L | 1 L

|| Coverage 3.5 m<sup>2</sup> /L  
@ 80  $\mu$  Thickness

### Application

A universal formulation specifically designed for use in various environmental situations. It also gives a desired cosmetic finish. MRO 3102 - ANTI GRAFITI offers excellent Aging & weathering resistance coupled with resistance to GRAFFITI and is used to protect the metal & concrete structures in the most aggressive conditions.



## MRO 3103-HVAC FIN KOTE

'MRO 3103-HVAC FIN KOTE' is a SINGLE-PACK high performance protective coating for application where heat transfer properties along with corrosion resistance are of importance. HVAC FIN KOTE is specially designed for HVAC coils, HVAC fins and radiator coils.

### Application

A universal formulation specifically designed for use in various environmental situations. To be used on ferrous & nonferrous HVAC/condenser coils, tubes & fins. It also gives a desired cosmetic finish. It gives excellent corrosion protection in varied climatic conditions. MRO 3103 HVAC FIN KOTE offers excellent Aging & weathering resistance coupled with resistance to chemicals and is used to protect the metal components in the most aggressive conditions.

### Benefits

- Excellent Corrosion Resistance
- Quick Drying
- Excellent Heat Transfer Properties
- Excellent Resistance to Acids (20 %); Alkalis (20 %)
- Excellent Resistance to corrosive gases
- Excellent Outdoor Stability

### SKU

- 20 L

|| Coverage 6.5 m<sup>2</sup> /L  
@ 20  $\mu$  Thickness



## MRO 3300-CHEMPRO WB EF

'MRO 3300-CHEMPRO WB EF' An high performance, Zero VOC, environment friendly, sustainable, anti corrosion protective coating for protecting metallic structures in varied climatic conditions. Stable in Temperature Range of -40°C to 200°C. Available in All Desired Colour Shades

### SKU

- 5 Kg/ 10 Kg/ 20 Kg

|| Coverage 5 m<sup>2</sup> /Kg/coat  
@ 90  $\mu$  Thickness

### Benefits

- Resistance to Humidity
- Prolonged Resistance to Chemicals & Corrosive Gases
- High Flexibility & Impact Resistance
- Excellent Temperature Resistance to UV Radiation
- Single Pack Ready-to-use System – Long Pot Life
- Self Priming – Direct to Metal Application Easy to Clean & Wash

### Application

- Carbon Steel
- Stainless Steel
- Non-Ferrous Metals
- Alloys
- Concrete surfaces



## MRO 4019-KONKRETE PUTTY

'MRO 4019-KONKRETE PUTTY' is a four-component urethane modified cementitious flooring repair system formulated to withstand harsh and demanding environments like impact, abrasion, chemicals and thermal attack. A PU binder is combined with Portland cement and graded aggregates to deliver superior performance characteristics. For Sanitary seamless wall to floor transition, install integral coving.

**|| SKU**  
● 20 Kg

**|| Coverage**  
6.25 Kg /Sq. m/  
10mm

### || Benefits

- Can be used for versatile applications as it has excellent adhesion to various substrates – concrete, quarry tiles, brick pavers and plywood
- Easy and quick to install
- Can be used in occupied areas due to very low odour & Zero VOC
- Long-lasting repair due to excellent impact and abrasion resistance
- Excellent resistance to water, oils, solvents, and alkalis
- Functional cure in 3 hours; full cure in 4 hours

### || Application

Ideal for patching concrete, brick, masonry & floors



## MRO 4020S-FLOORMARK SG

'MRO 4020S-FLOORMARK SG' is a SINGLE-PACK; high performance Industrial Floor Coating. It offers excellent abrasion resistant properties with Anti-Skid & Antistatic varieties as per customer requirements

**|| SKU**  
● 20 L | 5 L | 1 L

**|| Coverage** 1.8 m<sup>2</sup> /L @ 120 μ  
**Thickness** (3 Coats)



### || Benefits

- Single pack system
- Excellent abrasion resistance
- Anti-Skid Properties
- Anti-Static Properties
- Offers Waterproofing Properties
- Quick Drying
- Excellent Outdoor Stability
- Excellent resistance to UV radiations and chemicals.

### || Application

A specialty formulation specifically designed for use in various environmental situations. To be used on exterior as well as interior surfaces. It also gives a desired cosmetic finish. It offers excellent abrasion resistance along with Aging & weathering resistance. It is used for all flooring application needs like Light & Heavy Industrial Flooring, Commercial Flooring, Car Parking, Podiums and similar applications.  
Temperature -35 °C to 200 °C





## MRO 4022S-FLOORKOTE SG

'MRO 4022S-FLOORKOTE SG' is a SINGLE-PACK; high performance Industrial Floor Coating. It offers excellent abrasion resistant properties with Anti-Skid & Antistatic varieties as per customer requirements.

### || SKU

- 20 L | 5 L

### || Coverage 1.8 m<sup>2</sup> /L

@ 120 μ **Thickness**

### || Benefits

- Single pack system
- Excellent abrasion resistance
- Anti-Skid Properties
- Anti-Static Properties
- Offers Waterproofing Properties
- Quick Drying
- Excellent Outdoor Stability
- Excellent resistance to UV radiations and chemicals.

### || Application

A specialty formulation specifically designed for use in various environmental situations to be used on exterior as well as interior surfaces. It also gives a desired cosmetic finish MRO 4022S FLOORKOTE SG offers excellent abrasion resistance along with Aging & weathering resistance. It is used for all flooring application needs like Light & Heavy Industrial Flooring, Commercial Flooring, Car Parking, Podiums and similar applications.

Temperature-35°C to 200°C



## MRO 4021S-RAINSHADE SG

'MRO 4021S-RAINSHADE SG' is High performance water repellant, antistatic & anti-carbonation coating for concrete surfaces. Available in all standard colour shades as well as in clear shade.



### || Benefits

- Excellent water repellency
- Excellent antistatic properties
- Low water vapor permeability
- Excellent resistance to moss and fungus
- Tough & Scratch proof
- Excellent resistance to U.V Radiation.
- Excellent anti-carbonation properties
- Resistance to oil stains/graffiti
- Superior Performance/long life

### || Application

- External concrete wall surfaces
- Exposed bricks
- Fair faced concrete (Clear shade)

### || SKU

- 20 L

|| **Coverage** 55 sq. ft. per liter per coat -  
( @ 35 μ **Thickness**  
**Flat Area**)



## MRO 4025S-HEATSHIELD SG

'MRO 4025S-HEATSHIELD SG' is a SINGLE-PACK, heat insulation coating which reduces transfer of heat from outside to inside. It also has excellent water repellent properties, making it an effective waterproofing system for concrete & metal structures.



### || SKU

• 20 L | 5 L

### || Coverage 2.25 m<sup>2</sup> / L

@ 80 μ Thickness

### || Benefits

- Excellent Heat Insulation Properties saving 30% energy during peak summer
- Excellent Waterproofing Properties
- Excellent Chemical Resistant
- Protection against Corrosion
- Resistance to U. V. Radiations
- Excellent Resistance to Abrasion
- Excellent Resistance to moisture
- Excellent Outdoor Stability
- Excellent aesthetic look
- Excellent Flexibility
- Self-priming

### || Application

Recommended for insulating metals, concretes & plastic structures during the summer season & for water leakages during the rainy season.

- Solar structures
- Industrial Metal & concrete surfaces
- Resorts & Malls
- Hospitals
- Poultry Farms
- Villas & Residential Complexes
- Automobiles
- Refineries



## MRO 4040-A PROOF

'MRO 4040-A PROOF' is a versatile nano technology which imparts excellent water repellency to siliceous surfaces. It is suitable for wide range of masonry substrates such as concrete, all kinds of bricks and various types of natural stones.



### || SKU

• 5 Kg

### || Application

### || Benefits

- Water soluble product, easy to apply
- Protected surface 'BREATHES' – A Proof does not trap moisture
- Chemically reactive and penetrative technology
- Provides long lasting protection
- Does not form a surface film or gloss

- Brick / Stone Facades
- Clay / Cement Pots
- Concrete Paved Areas
- Docks / Shipyards
- Railroad Slippers
- Cement Sheet / pipe
- Primer for Coating
- Basements / Foundations
- Bridges, Flyovers & Tunnels
- Hotels / Restaurants
- Cooling Towers



## MRO 5001-KF 600 FIRE RETARDANT COATING

'MRO 5001-KF 600' is a one-part non-flammable water-based coating similar in appearance to ordinary latex-based paint for protecting electric power cables & junction boxes against ignition & propagation of fire.



### || Benefits

- Current rating of the coated electrical cables will not reduce
- Dripping or dropping of burning cable fragments is limited in amount and time depending on the kind and intensity of the fire
- Escape routes and power supply will be in use for a longer time
- Flame spread on cables and insulating damage will be delayed, in the case of prolonged exposure to fire
- There will be a significant extension of the operative condition of cables

### || Application

'MRO 5001-KF 600' Fire suppression coating especially designed for protecting against ignition, propagation of fire, smoke emission in:

- Electric power cables
- Communication cables
- Junction boxes

### || SKU

- 25 Kg

### || Coverage

2.2 to 2.6 Kg per sq. m to an approximate thickness of 1.6 mm to 2.0 mm (DFT)



## MRO 5003-KF 604 FIRE STOP BARRIER MORTAR

'MRO 5003-KF 604' is a single component non-combustible Asbestos-free fire stop barrier designed for 3 (three) hour fire rating useful in cable penetrations and cable bulkheads & has 20 years life expectancy.

### || SKU

- 25 Kg Bag

### || Benefits

- Quick-setting
- Can be used in horizontal or vertical applications
- Saves time
- Versatile
- Single Component & simple mixing
- No effect due to vibration, impact and radiation
- Mechanically very strong and can bear drop loads
- Maintenance-free

### || Application

Permanent fire seal for cables, cable trays and non-combustible pipes







## MRO 5004-FIRE BARRIER SYSTEM

High-density stone wool slabs coated with fire retardant coating for creating a barrier to prevent the propagation of fire, smoke and heat.

### || Benefits

- Versatile & easy to apply
- Mechanically strong & can bear drop loads
- No effect due to vibration, impact and radiation

### || Application

- Wall openings, under control panel and floor openings
- Cable entry gaps



## MRO 5005-FIRE PROOF CLEAR KOTE

'MRO 5005-FIRE PROOF CLEAR KOTE' is Intumescent fire retardant clear lacquer coating used on wood, fabrics or as a top coat on any solid surface. It is a solvent based, easy to apply, clear transparent finish coating. It protects the treated surface from fire.

### || SKU

- 1 Kg
- Units per case: 6 numbers

### || Coverage -

4 Sq. m/ Kg

### || Benefits

- One component resin-based clear coat and easy to apply
- It is excellent water, weather and UV resistance
- Dry film has excellent fire-retardant properties
- Intumescent expands with heat
- Water and Weather Resistant
- Non-Toxic/Non-Hazardous components, Free from asbestos, volatile solvents
- Fully resistant to moisture, humidity, chemicals, corrosive gases, oil spillage etc

### || Application

MRO 5005 FIREPROOF CLEAR KOTE is a solvent-based, easy to apply, clear transparent finish mainly for application on wooden surfaces

- Protection for wood, Softwood & Hardwood
- MDF (FR & non-FR)
- Melamine
- Plywood
- Particleboard
- Bamboo
- Painted canvas on plasterboard
- FRP, Bakelite
- Metal



## MRO 5010-ANTI COR FR COATING

'MRO 5010-ANTI COR FR COATING' is a single pack fire retardant anti corrosion coating for metal structures which is based on high performance grafted co polymer technology.

### || Benefits

- Resistance to Fire
- Excellent Corrosion Resistance
- Quick Drying at ambient temperature
- Excellent Resistance to UV radiation
- Excellent Resistance to Chemicals
- Excellent Outdoor Stability
- Available in all desired colour shades

### || Application

A universal formulation specifically designed for use on metal structures as a fire retardant coating in various environmental conditions. It also gives a desired finish. It gives excellent corrosion protection in the most aggressive conditions. It offers excellent Aging & weathering resistance coupled with resistance to chemicals

### || SKU

- 20 L

### || Coverage -

2.75 sq. m/ L @ 80  $\mu$  **Thickness**

## MRO 6000-MECHANICAL MAINT KIT

The Kit comprises of unique & easy to use MRO solutions useful for Mechanical engineers which reduces costly downtime.

### || Benefits

- Kit contains a total of 52 SKU useful in mechanical maintenance

### || Application

It is useful in 29 different innovative application solutions comprising of Industrial Aerosols, bulk cleaners, specialty lubricants, cold welding compounds, specialty coatings & PPE

### || SKU

- 1 Kit



## MRO 6001-ELECTRICAL MAINT KIT

A customized kit which has all the materials needed for Electrical maintenance.

### || Benefits

- Kit contains a total of 28 SKU useful in Electrical maintenance

### || SKU

- 1 Kit

### || Application

It is useful in 17 different innovative application solutions comprising of different types of Electrical cleaners, coatings, lubricants & protection for improving electrical properties



## MRO 6002-CIVIL MAINT KIT

A customized kit which has all the materials needed for Civil maintenance.

### || Benefits

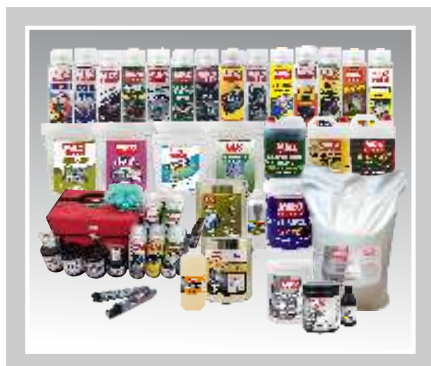
- Kit contains a total of 21 SKU useful in Civil maintenance

### || SKU

- 1 Kit

### || Application

It is useful in 10 different innovative application solutions comprising of different types of cleaners, protective coatings & repair putties for improving life & reliability of civil structures



### || Other version of Kits available on request:

Kit can be customised as per the budget by increasing or decreasing the quantity of the kit content



## MRO 6003-INSTRUMENTATION KIT

It is a customized kit which has all the materials needed for Instrumentation maintenance.

### || Benefits

- Kit contains a total of 26 SKU useful in Instrumentation maintenance

### || Application

It is useful in 10 different innovative application solutions comprising of different types of Electronic cleaners, coatings, lubricant & protection for improving electrical properties

### || SKU

- 1 Kit



## MRO 6004-TRANSFORMER MAINT KIT

A customized kit which has all the materials needed for temporary and permanent emergency repairs comprising of:

### 'MRO 8011 - E PUTTY'

A fast curing, steel-filled epoxy putty for dependable emergency repairs and quick maintenance work.

### 'MRO 8051 - S STICK'

A versatile, hand-knead-able 2-in-1 easy to use epoxy putty stick.



### MRO 8000 - Ti PUTTY

High performance alloy reinforced epoxy putty, engineered to make precision repairs to critical stress bearing equipment.

### MRO 1017 - Paint Remover

A fast acting blend of solvents for removal of paints, gaskets, adhesives, sealants, lacquers and varnishes without excessive scraping or causing damage to the surfaces.

### MRO 1011 - Kleaner-Degreaser

A non chlorinated, fast drying cleaner / degreaser for cleaning oil & grease.

### MRO 1020 - Brite Galva

A high performance zinc coating designed to provide galvanic corrosion protection to Transformer Fins and stop rusting and rust creepage.

### || Benefits

- A customized kit which has all the materials needed for temporary and permanent emergency repairs. Kit contains a total of 21 SKU useful in instrumentation maintenance

### || Application

- Oil leakages in transformers, capacitors & reactors
- Leakage from welded joints
- Leakages in pipelines/tanks/compressed air/gas/chemicals
- Protects from Bi-metallic Corrosion in Transformer Fins

### || Other version of Kits available on request:

Kit can be customised by increasing or decreasing the quantity of the kit content





## MRO 7000-ASSEMBLY GEL

Solid lubricant paste for the assembly and running-in of metal components.

**Coverage**  
 40 Sq. m/17  $\mu$



### SKU

- 1 Kg
- Units per case: 12 numbers

### Application

- Can be used in press-fit production of all types of machine elements, as a running-in lubricant for new machines and gear-boxes.
- Can be used in permanent lubrication of machine elements that are moved only rarely or slightly and also for drilling, sawing and thread cutting
- Can be used successfully for lubricating threaded spindles, splined shafts, toothed gears, worm and transmission gears, screws, valves, pumps, machine-tool guides and also for the tightening and fitting of roller bearings, washers, wheels, flanges and bolts
- As a universal assembly paste to reduce tightening torque required; for enabling easy and non-destructive disassembly of components after long operational hours under operating and temperature variations
- Can be used as an antifriction and anti-wear lubricant for heavily loaded surfaces under slow sliding speeds for preventing cold welding of sliding surfaces under heavy loads

### Benefits

- Extremely wide service temperature range of -25°C to +450°C (up to +630°C in areas with restricted air access)
- Low coefficient of friction
- High pressure withstanding capacity
- Load bearing capacity exceeds the yield point of most metals
- Offers protection from wear and friction
- Prevents seizure, scoring, galling, fretting corrosion and stick-slip
- Makes disassembly easier and non-destructive irrespective of the operational period or conditions
- Economical to use owing to its high surface coverage capacity
- Aids running in and provides emergency lubrication during start-ups
- Prevents cold welding and stick-slip
- Good affinity for metal surfaces.



## MRO 7001-Cu ANTISIEZE GEL

High-temperature copper-based anti-seize thread compound. It provides a high load-carrying capacity, corrosion protection, non-destructive dismantling, and contains no lead or nickel

### SKU

- 1 Kg
- Units per case: 12 numbers

**Coverage**  
 2.5 sq. m /320  $\mu$



### Benefits

- Extreme wide service temperature range of -30°C to +1100°C
- Makes disassembly easy and non-destructive even after long operational periods at high temperatures and adverse working environments
- High load withstanding capacity
- Creates an effective matrix between mating surfaces to prevent metal-to-metal contact
- Protects substrate from wear and friction
- Good corrosion protection
- Water-resistant
- Ensures consistent tightening of threaded connections and provides an optimum balance between torque required to tighten and pretension
- Prevents bolt breaking, sintering, fusion, seizure, thread stripping and distortion of threads

### Application

Used for bolted joints that will be subject to high temperature and corrosive effects:

- Cylinder head bolts
- Nozzle head screws
- Tension rings of centrifuges



## MRO 7002-SILVER ANTISIEZE GEL

'MRO 7002-SILVER ANTISIEZE GEL' is a Synthetic, heavy-duty, high temperature, anti-seize lubricant grease designed for heavy pressure that resists galling and corrosion and reduces wear.

It permits easy disassembly of parts exposed to high temperatures and heavy contact pressures in various industries such as mines, power plants, etc

### || SKU

- 1 Kg
- Units per case: 12 numbers

### || Benefits

- Extremely wide service temperature range of -50°C to +900°C
- Makes disassembly easy and non-destructive even after long operational periods at high temperatures and adverse working environments
- High load withstanding capacity
- Creates an effective matrix between mating surfaces to prevent metal-to-metal contact
- Protects surface from wear and friction
- Good corrosion protection
- Water resistant
- Ensures consistent tightening of threaded connections and provides an optimum balance between torque required to tighten and pretension
- Prevents bolt breaking, sintering, fusion, seizure, thread stripping and distortion of threads

### || Application

Highly recommended for use on all threaded and flanged connections operating at very high temperatures and corrosive conditions to enable faster and rapid non destructive disassembly after long operational periods as in:

- |                      |                                      |
|----------------------|--------------------------------------|
| • Autoclaves         | • Gas generators                     |
| • Furnaces           | • Plastic moulding machines          |
| • Boilers            | • Chemical and steel plant equipment |
| • Reactors           | • Jet engines                        |
| • Turbines           | • Studs                              |
| • Extrusion mandrels | • Pumps                              |
| • Compressors        | • Pipes                              |
| • Heat exchangers    | • Couplings                          |
|                      | • Splines                            |
|                      | • Bolts, Bushings                    |



## MRO 7003-Ni ANTISIEZE GEL

It is a high-performance, nickel-based anti-seize compound. Combines the extreme pressure, corrosion-resistant anti-seize abilities of micro-fine, colloidal nickel in an oil suspension that can withstand temperatures up to 1425°C (2597°F).

### || SKU

- 1 Kg
- Units per case: 12 numbers

### || Coverage

2-3 sq. m/kg



### || Benefits

- Eases mechanical assembly and disassembly up to 1425°C (2600°F)
- Withstands extreme pressure
- Creates a matrix between mating surfaces to prevent metal-to-metal contact
- Protects substrate from wear and friction
- Corrosion resistance
- Water-resistant
- Balanced coefficient of friction eliminates torque recalculations
- Prevents bolt breaking, sintering, fusion, seizure, thread stripping and distortion of threads
- Safe on all metals

### || Application

- Bolts
- Studs
- Flanges
- Fittings
- Valves
- Pipes
- Refineries
- Chemical Industries



## MRO 7004-ROLLER BEARING GEL

'MRO 7004-ROLLER BEARING GEL' is a high-performance grease with MoS<sub>2</sub> solid lubricants for metal/metal combinations involving slow to fast movements, particularly with medium to high loads.

### || SKU

- 1 Kg
- Units per case: 12 numbers

### || Application

- Used successfully on roller bearings, plain bearings, sliding guides, roller guides, ball-and-socket joints, splined shafts and threaded spindles
- For heavy duty and long term lubrication to bearings and equipment of heavy engineering machinery, textile processing machines, compressors, exhaust fans, overhead cranes, mining and construction equipment, chassis of automotive and transportation fleet, sugar and cement plant machinery, rolling mills
- For long lasting lubrication of cams, shafts, spring, joints, steel cables; for lubrication of small gear mechanisms exposed to severe impact loads and slow operating speeds



### || Benefits

- Extreme wide service temperature range of -30°C to +130°C (up to +150°C for short intervals)
- Forms a lubricating film to provide emergency lubrication and prevents premature bearing failures caused due to lubricant starvation as a film of solid lubricants is always maintained between sliding surfaces
- Prevent metal-to-metal contact, reduces friction and wear and protects against fretting corrosion
- Highly resistant to hot or cold water and water washout
- Extends re-lubrication intervals and cuts down lubricant consumption
- Combination of EP additives and solid film lubricants increase the load-bearing capacity and provide emergency running in and boundary lubrication
- It offers surface protection and corrosion inhibiting properties
- Good performance under moderate to high loads and medium speeds under reciprocating motions
- Makes sliding smoother and reduces operational noise
- Increases wear life of the equipment & outperform conventional lubricants
- Good resistance to oxidation



## MRO 7005-NON MELTING HT GEL

Non melting High performance extreme pressure grease for high temperature lubrication.

### || SKU

- 1 Kg
- Case Packing: 12 numbers

### || Application

- Non-drip, non-melt bearing grease for high temperature lubrication of over head conveyor bearings in lithography, curing booths, automotive assembly lines, ceramic, rubber, latex processing, pharmaceutical, bakery, textile and glass plants
- For lubrication of plain and anti friction bearings of heavy engineering equipment, processing machines, pumps, mining and construction equipment, EOT cranes, material handling equipment
- Steel Mill & Foundries: Bearings in soot blowers, furnace door hinges, hot running bearings in axle boxes and kiln cars, furnace louver pins and bushings, pusher mechanisms, hot strip mills, bloom and billet mill roller bearings, crop car wheel and hot metal mixer bearings, open hearth furnaces, converters, ladles
- For lubrication of anti friction and plain bearings of pre-heater fans, induced draft fans, ovens, pumps, mixers, furnaces, paper mill machinery, sugar plants
- Painting and drying ovens
- Heating Systems
- Vulcanizing systems
- Converters
- Hot air fans
- Blowers
- Pouring ladles
- Charging Cranes

### || Benefits

- Non melting and does not drip off to contaminate other components
- Highly resistant to water and water washout, humidity, steam, ageing and oxidation
- Retains consistency at high temperatures
- Low evaporation rate
- Heavy duty performance increases re-lubrication intervals and cuts down lubricant consumption





## MRO 7006-ELECTRIK MOTOR GEL

High performance extreme pressure non melt grease for high temperature lubrication.

### || SKU

- 1 Kg
- Units per case: 12 numbers

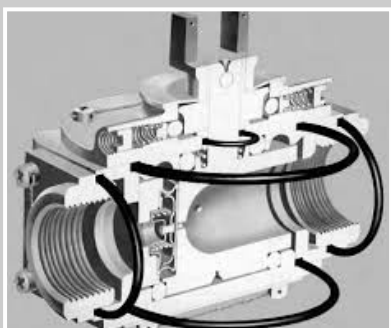
### || Application

- For Electrical Motor Bearing & Fan Bearings
- For lubrication of anti friction and journal bearings under very severe operating conditions of wear, friction, heat, humidity, loads and high stress
- Non-drip, non-melt bearing grease for high temperature lubrication of over head conveyor bearings in lithography, paint stoving ovens, curing booths, automotive assembly lines, ceramic, rubber, latex processing, pharmaceutical, bakery, vulcanizing, textile and glass plants
- For lubrication of plain and anti friction bearings of heavy engineering equipment, processing machines, textile machinery, pumps, mining and construction equipment, EOT cranes, material handling equipment
- Steel Mill & Foundries: Bearings in soot blowers, furnace door hinges, hot running bearings in axle boxes and kiln cars, furnace louver pins and bushings, pusher mechanisms, hot strip mills, bloom and billet mill roller bearings, crop car wheel and hot metal mixer bearings, open hearth furnaces, converters, ladles
- For lubrication of anti friction and plain bearings of pre-heater fans, electrical motors, induced draft fans, ovens, pumps, mixers, furnaces, paper mill machinery, sugar plants



### || Benefits

- Wide service temperature range of -30°C to +180°C (for short intervals up to +200°C)
- Very good adhesion to metal surfaces
- Non melting and does not drip off to contaminate other components
- Highly resistant to water and water washout, humidity, steam, ageing and oxidation
- Retains consistency at high temperatures
- Low evaporation rate
- Heavy duty performance increases re-lubrication intervals and cuts down lubricant consumption
- Reduces wear and friction and provides emergency running in properties
- Good high temperature performance
- High surface pressure withstanding capacity
- Increases service life of equipment
- Prevents premature equipment failure by providing a solid lubricant film in case of lubricant starvation

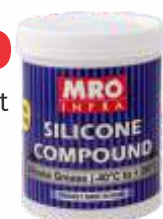


## MRO 7009-SILICON COMPOUND

Stiff, non melting silicone grease like compound for use as lubricant for rubber and plastic O-rings & sealant for gaskets and seals

### || Application

- Lubricant for O-rings, packing, rubbers, gaskets, miniature bearing seals to provide resistance to water, chemicals, oxidation and provide thermal stability
- Lubrication of pneumatic control valves, fire extinguishers and water softener valves
- Sealant and lubricant for glass joints and stopcocks in normal as well as high vacuum systems
- Lubricant for pressure lubricated plug valves, flow meter bearings, ceramic plug cocks



- Sealant for vacuum and pressure systems
- Sealant between synthetic rubber or plastic parts to prevent them from sticking in vacuum or pressure systems
- Chemical barrier and resistant coating for chemical processing equipment

### || Benefits

- Wide service temperature range from -40°C to +200°C
- Very good oxidation resistance
- Completely resistant to water, steam, humidity and corrosives
- Low vapor pressure and low volatility
- Compatible with plastics, rubbers, elastomers, and other gasket and O-ring seal materials
- Prevents age hardening, stress cracking and maintains resilience of plastics
- Non gumming, non melting and non toxic

- Damping media for dash pots in electrical and electronic equipment
- Assembly agent for holding rubbers and other parts due to its highly tacky nature
- All ingredients comply with regulations for food grade materials

### || SKU

- 1 Kg
- Units per case: 12 numbers

- Provides good lubricating and sealing properties for rubbers and plastics
- Chemically inert and resistant to most chemicals, hot and cold water, vegetable and mineral oils, dilute acids and alkalis, glycerin, ethanol, methanol, butane, steam, natural gas, ethylene glycol, most organic and inorganic chemicals and aqueous solutions.



## MRO 7010-WIRE ROPE GEL

'MRO 7010-WIRE ROPE GEL' is highly adhesive, semi fluid extreme pressure grease for lubrication and corrosion protection of wire ropes and steel cables operating under adverse conditions of load, temperatures or environment. It penetrates rapidly through wire rope strands to leave a completely water resistant heavy duty lubricating film which provides both internal as well as external lubrication & corrosion protection. The solid lubricants prevent wearing and premature damage of internal strands and increase the life of the wire ropes.

### Benefits

- Protect against heavy loads, galling, and seizing
- Molybdenum disulfide solid lubricant & EP additives withstand high loads and pressures
- Reduces wear and friction
- Resists vibratory shocks
- Does not break down or melt or fling under prolonged use
- Effectively provides lubrication & corrosion protection even to the innermost strands
- Highly resistant to water wash-off and offers outstanding corrosion protection
- Maximizes the service life of the rope

### Application

On wire ropes and steel cables in all cranes, ships, hoists, elevators especially exposed to marine environment or under adverse operating conditions

### SKU

- 5 Kg
- Units per case: 4 numbers



## MRO 7012-MF ANTISIEZE GEL

'MRO 7012 - MF ANTISIEZE GEL' is a High-temperature paste for preventing seizure at high temperature & lubricating heavily loaded sliding surfaces.

### SKU

- 1 Kg
- Case Packing: 12 numbers

### Application

- Lubrication of highly stressed sliding surfaces, especially at low slip speeds or with oscillating movements, for example with screwed, mating or bayonet connections made of high-alloy steel or non-ferrous metals
- Surface separation of temperature-stressed threaded connections, for example at combustion engines and turbines
- Corrosion protection at screws, pins, bolts, flanges, spindles and fits
- For stainless-steel connections

### Benefits

- Economic product solution for users who previously used a wide variety of pastes
- Resistant to hot and cold water and also to most acids and alkalis
- Excellent corrosion protection
- Contains MoS2 Active for increased performance
- Metal-free





## MRO 8000 S-TI PUTTY SG

'MRO 8000S-Ti Putty SG' is high performance alloy reinforced epoxy putty, engineered to make precision repairs to critical stress bearing equipment. Used to protect new or repaired surfaces from cavitations, erosion and corrosion. Excellent adhesion to ferrous & non-ferrous compounds.

### || Coverage

1550 sq. cm/ 3 mm

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Benefits

- High Temperature resistance
- Excellent chemical resistance
- High Compression strength
- Non-rusting, machinable to a metallic finish
- No shrinkage as it is 100% solids

### || Application

- Protects from Bi-metallic Corrosion
- Repairing worn pumps, scored shafts and hydraulic rams
- Rebuilding wear rings, pump impellers, butterfly and gate valves and tube sheets
- Protecting wear plates
- Preventing cavitations to condenser water boxes
- Refitting keyways
- Restoring bearing housings
- Leveling and chocking critical equipment



## MRO 8001 S-S PUTTY SG

'MRO 8001S-S PUTTY SG' is a two-part high performance repair composite based on solvent-free epoxy resin reinforced with silicon steel alloy. This high temperature repair system is designed for metal repair and rebuilding equipment and provides excellent corrosion protection. This repair material will not corrode and resists a wide range of chemicals. It is easy to mix and apply without the need of specialist tools and can be machined using conventional tools. 'MRO 8001S - S Putty SG' is suitable for applications up to 210°C (410°F).

### || Benefits

- Multi-purpose durable repair composite
- Fully machinable using conventional tools
- Application and cure at room temperature - no hot work involved
- Reduced health and safety risks as it is solvent-free
- No shrinkage, expansion or distortion
- Excellent adhesion to metals including stainless steel, carbon steel, aluminium, brass and copper
- Will adhere to many other natural and synthetic materials including glass and wood
- Outstanding corrosion resistance
- Excellent chemical resistance against a wide range of chemicals
- Excellent electrical insulation characteristics

### || Application

- Repair of cracks and holes on engine and pump casings, pipes, tanks and other equipment
- Resurface of pitted metal surfaces
- Repair of damaged shafts and hydraulic rams
- In-situ flange repair
- High strength structural adhesive for metal bonding
- Creation of irregular load bearing shims and reforming of bearing housings

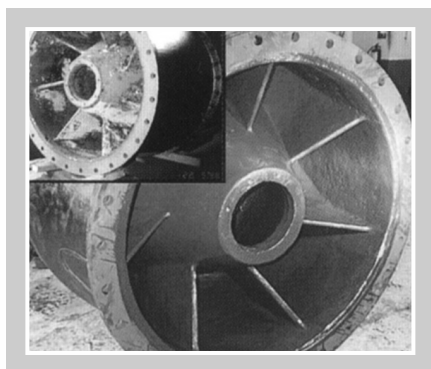
### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Coverage

770 cm<sup>2</sup> @ 5 mm





## Coverage

624 cm<sup>2</sup>/kg @ 5mm

## Application

- Rebuild worn pump casings and suction plates
- Repair tube sheets, heat exchangers and other circulating water equipment
- Restore worn chutes and hoppers
- Repair and rebuild butterfly and gate valves

# MRO 8002-CERAMIC PUTTY-HT

It is a high performance, trowel-applied, high temperature resistant ceramic-filled epoxy for rebuilding worn or damaged equipment.

## SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

## Benefits

- Can do repairs at In-situ repair, In-Plant, Workshops, Remote areas
- Can repair intricate shape or forms/thin sections, difficult to weld metals
- Efficient alternate method of repair where welding or brazing would be undesirable or impossible
- Eliminates costly wear part inventory
- Excellent electrical insulation characteristics
- Fast, cost effective and durable
- Good resistance to abrasion, friction reduction and hence ideal for turn-around time.
- Less Labor costs - Avoid assembly/disassembly, Pre Machining/Post Machining
- Resistant to chemicals and most acids, bases, solvents, and alkalis
- No equipment/Power supply needed
- No shrinkage, expansion or distortion
- No VOC's
- Repair cost at fraction of replacement cost
- Can repair clean and abraded SS, cast iron, concrete, bronze, copper and aluminum
- The product can be easily applied to any unlimited thickness onto horizontal or vertical surfaces



## Benefits

- Repair cost a fraction of replacement cost
- No equipment/Power supply needed
- Excellent electrical insulation characteristics
- No VOC's so it can be applied in confined spaces
- Fast, cost-effective and durable
- Good resistance to abrasion and friction reduction hence ideal for turn-around time
- The product may be applied to any unlimited thickness onto horizontal or vertical surfaces
- Efficient alternate method of repair where welding or brazing would be undesirable or impossible

# MRO 8003-FLEX PUTTY

'MRO 8003-FLEX PUTTY' is a tough, rubber-like urethane compound for making a broad range of repairs to protect against wear, abrasion and noise reduction.

## SKU

- 500 gm
- Units per case: 6 numbers
- No. of part/s: 2 Part

## Application

- Repair holes, gouges & tears in SBR conveyor belt
- Protect processing equipment such as coating hoppers, lining chutes, pump volutes, impellers and fan housings
- Rubber Bellows crack protection
- Protect Belt Clips & Splices from scrapers, with pulleys > 10" diameter

## Coverage

1016 cm<sup>2</sup> /  
0.5kg /  
2.5 mm

- Can repair intricate shape or forms/thin sections, difficult to weld metals
- Unlimited cycle of repairs
- Less Labor costs - Avoid assembly/disassembly, Pre Machining/Post Machining
- Resistant to chemicals and most acids, bases, solvents, and alkalis
- Superior adhesion – forms a solid bond to steel, cast iron, Stainless steel, concrete, and clean and abraded bronze, copper and aluminium.
- Eliminates costly wear part inventory
- No shrinkage, expansion or distortion
- Can do repairs at In-situ repair, In-Plant, Workshops, Remote areas



## MRO 8005-PLASTIC PUTTY

A two component paste, based on a aluminum powder filled epoxy system. The non-rusting, non-magnetic dependable inert putty extensively used for fairing, repair or patching of aluminum castings and equipment where aluminum finish is desired.

### || SKU

- 500 gm
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Coverage

597 cm<sup>2</sup> / kg / 5 mm

### || Benefits

- Fast, cost effective and durable
- High compressive strength and extreme chemical resistance. Good resistance to abrasion, friction reduction and hence ideal for turn-around time
- The product may be applied to any unlimited thickness onto horizontal or vertical surfaces
- Efficient alternate method of repair where welding or brazing would be undesirable or impossible
- Can repair intricate shape or forms/thin sections, difficult to weld metals
- No equipment/Power supply needed
- Unlimited cycle of repairs
- Less Labor costs - Avoid assembly/disassembly, Pre Machining/Post Machining Resistant to chemicals and most acids, bases, solvents and alkalis
- It can be easily machined, drilled, tapped or painted
- Superior adhesion – forms a solid bond to steel, cast iron, Stainless steel, concrete and clean abraded bronze, copper and aluminum
- Eliminates costly wear part inventory
- No shrinkage, expansion or distortion
- Excellent electrical insulation characteristics
- Can do repairs at In-situ repair, In-Plant, Workshops, Remote areas

### || Application

- Patch aluminum castings; make jigs, dies and holding fixtures
- Aluminum castings, machinery and equipment
- Used in HVAC applications
- Making aluminum dies
- Filling Blow Holes
- Non Corroding , Anti magnetic parts

- No VOC's
- Routine Maintenance and Unexpected Maintenance
- Repair cost at fraction of replacement cost



## MRO 8011 S-E PUTTY SG

'MRO 8011S - E PUTTY SG' is a 2-part composite material for metal repair based on a silicone steel reinforced polymer system. Due to its fast-curing characteristics, this repair material is ideal for emergency repair situations. It can be machined using conventional tools and provides a permanent metal bonding or rebuilding solution.

### || Benefits

- High Temperature resistance
- Excellent chemical resistance
- High Compression strength
- Non-rusting, machinable to a metallic finish
- It reduces shutdown time drastically

### || Application

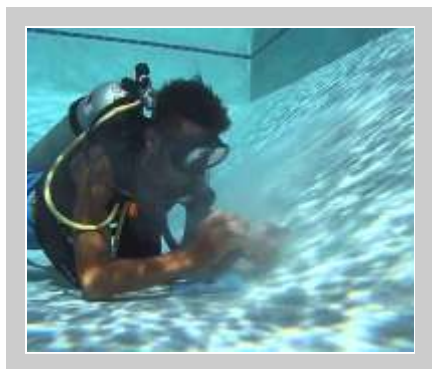
- Repairs cracks and breaks in equipment, machinery or castings
- Patches and rebuilds blow holes or pits in castings
- Rebuilds worn equipment, pump and valve bodies
- Restores bearing journals and races
- Low pressure leakages in pipelines/tanks carrying oil/compressed air/gas/chemicals
- Oil leakages in transformers, capacitors & reactors
- Leakage from gear box covers, sumps
- Leakage from welded joints

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s : 2 Part

### || Coverage

1100 cm<sup>2</sup> @5 mm



## MRO 8012-UW PUTTY

'MRO 8012-UW PUTTY' is a unique, non-rusting, high exothermic epoxy for repairing, patching and rebuilding equipment in chronically wet environments - even under water.

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Coverage

862 cm<sup>2</sup> @5 mm

### || Application

- Repairing pipes, fittings, valves, pumps, tanks and other equipment in marine environments, offshore drilling, water treatment plants and paper and pulp mills
- Repairing concrete pipes and vessels in wet environments
- Potable water leakages



### || Benefits

- The putty is unaffected by chlorinated or salt water and is ideal for plumbing, irrigation and marine where applications are underwater
- Prevent environmental damage caused by leakages
- Reduces downtime loss caused due to leakages
- Requires no heat
- Efficient alternate method of repair where welding or brazing would be undesirable or impossible
- Can Repair Intricate shape or forms/thin sections, difficult to weld metals
- No VOC's and No Shrinkage



## MRO 8015-GLASS LINING REPAIR PUTTY

Machinable Cold Weld Compound, having excellent adhesion with a glass lining. It brings down the maintenance and operational cost drastically and is all set to revolutionize the Glass lining Industry.

### || Coverage

1070 cm<sup>2</sup> / kg @ 5 mm

### || Benefits

- Doesn't react with common industrial gases, acids, reagents and solvents
- The repair can be completed within two hours

### || SKU

- 1 Kg
- Units per case: 6 numbers
- No. of part/s: 2 Part

### || Application

Repair of the vessel where the Glass lining has been partially or completely worn out. It can also be used for rebuilding glass-lined equipment such as spindles, impellers, flanges, etc



## MRO 8020-REINFORCEMENT TAPE

Reinforcement tape for building thickness in cold repair putties

### || Benefits

- It can be used as a bandage for repair and help to build thickness

### || Application

Spread putty on the tape and apply a bandage to the area to be repaired, with the coated side adjacent to the substrate. In the case of repairing pipes, apply putty and wrap the tape tightly around several times





## MRO 8022-PIPE WRAP

**MRO 8021 PIPE WRAP (50 mm X 1.8 m) &  
MRO 8023 PIPE WRAP (100 mm X 3.6 m)**

'MRO 8022-PIPE WRAP' is a moisture curing urethane impregnated fiberglass repair composite bandage packed in a hermetically sealed foil pouch. It is a fast, permanent and instant emergency repair and strengthening system that seals leak even under pressure.

'MRO 8022-PIPE WRAP' not only restores a pipe to its original pressure rating, but actually can make the repair area stronger than the original pipe, reducing downtime, saving in parts and labor. It is excellent on steel, SS, copper, PVC, FRP, HDPE, PP, CPVC, UPVC, clay, concrete, rubber, and more.

### Benefits

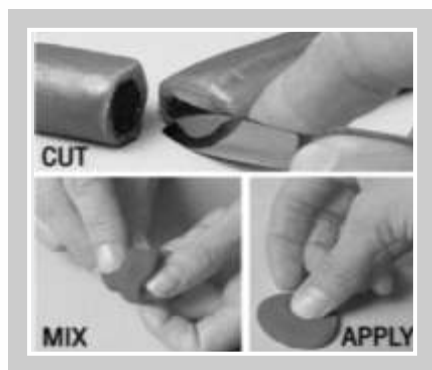
- Bonds to most of the substrates
- Ready to use & versatile
- Effective & time-saving
- No mixing and no mess
- Sets rock hard in minutes
- Permanent repair
- Corrosion resistant

### Application

- Impact protection
- Emergency repair
- Corroded pipes
- Irregular pipe fittings
- Force mains and gravity lines
- Joint and tee repair
- Underwater repair and splash zone

### SKU

- 1 No (50mm x 3.6m)
- Units per case: 6 numbers



## MRO 8051-S STICK

'MRO 8051-S STICK' is a fast-setting, industrial-strength polymer compound that enables permanent repairs to anything made of steel or

other metals. It also bonds to wood, glass, masonry, and many plastics. Each handy stick contains pre-measured portions of activator and base throughout – no measuring or mixing tools are necessary. As the epoxy is mixed, the two contrasting colours blend into one colour to indicate complete mixing.



The consistency (like modelling clay) eliminates drips and runs, facilitates adhesion to the substrate, and allows the material to be shaped and formed as needed before curing begins. 'MRO 8051 S Stick' cures to a dark grey metallic colour. Once cured, it can be tapped, drilled, screwed, sawed, machined, ground, filed or painted. It is non-rusting.

### Benefits

- 'MRO 8051 S-Stick' is simple to use, allowing easy transportation to emergencies and areas with limited access
- Easy to mix & fast cure for high-speed emergency repairs with minimal disruption in in-situ applications
- Excellent adhesion to metals including stainless steel, carbon steel, lead, aluminium, brass and copper as well as many other materials
- Reduce health and safety risks as it is cold-applied and solvent-free, allowing the application even in confined spaces
- Two-colour the formulation ensures a uniform mix

### Application

- Repairing of damaged internal threads of various types of machine pumps
- Repairing heat exchangers and condensers
- Repairing of cooling pump impellers & Butterfly valves
- Sealing of leakage/cracks in metal fabrications, industrial vessels, boilers, hulls of ships, boats and trawlers
- Sealing water supply mains, storage tanks, concrete sewer pipes, heat exchanger coils, etc
- Sealing blowholes, cracks, and leakage in ferrous and non-ferrous casting, pumps and mould boxes etc
- Sealing holes/cracks in wooden and metal patterns
- Sealing cracks in casings of meters/gear-box etc
- Tank linings and chutes, Agitator Shafts, Slurry Lines, Spiral Classifiers

### SKU

- 114 gm (4 oz) Co-centric Stick
- Units per case: 12
- Units per master case: 240



## MRO 9000-DIELECTRIC KOTE (33 KV) SINGLE COMPONENT

'MRO 9000-DIELECTRIC KOTE (33KV)' is a single component electric insulation coating designed to impart high electric strength for various electrical applications. It is highly hydrophobic in nature and is having excellent water repellant properties. MRO 9000-DIELECTRIC KOTE (33kv) film helps to avert the leakage currents, resulting into reduction in contamination flashovers. MRO 9000-DIELECTRIC KOTE (33kv) coating offers excellent UV radiation resistance coupled with tracking resistance which makes its use beneficial for outdoor exposure and in extreme weather conditions.

### || Benefits

- Di-Electric strength 59 KV/mm
- Stable up to 200° C
- Excellent resistance to UV radiation (suitable for outdoor exposure)
- Excellent resistance to transformer oil
- Tough and Scratch resistant (excellent puncture resistant)
- Excellent corrosion resistance
- Quick drying at room temperature

### || Application

To be used on Busbar in control panels, on ceramic insulators, on poles & cross arms, as Insulating coating in front of control panels as replacement of rubber mats, on current carrying conductors & similar live parts to avoid accidents

### || SKU

- 20 L

### || Coverage

10 ft<sup>2</sup>/L



## MRO 9012-DIELECTRIC KOTE

'MRO 9012-DIELECTRIC KOTE' is designed for use in wide range of industrial environments where the high breakdown voltage protection & insulation is required. It provides both insulation as well as combat corrosion and chemically resistant floor surface which is hygienic and easy to clean.



### || Benefits

- 4 Packs, Pre measured ratio for ease of on-site mixing and use
- Excellent adhesion to substrate
- Good chemical and mechanical resistance
- De-contaminable - Bacteria able to be removed Impervious
- High Glossy aesthetic finish- brightens up dull factories and warehouses
- Seamless / Joint free applications - Eliminates potential sources of failure
- Hygienic and does not support growth of bacteria and fungus
- Color Range: Available in different colour combinations as per standard RAL Shade Card

### || Application

- Workshops
- Garages
- Traffic aisles in factories or warehouses
- Production Floors
- Processing areas
- Kitchens
- Laboratories
- Battery Rooms
- Store Rooms
- Sub Stations
- Switchgear panels support structure guards against animal caused flashovers
- Busbars
- Transmission Towers
- Electrical Poles

### || SKU

- 25 Kg
- Case Packing: 1 numbers
- No. of part/s: 4 Part

### || Coverage

10 Sq. m/25 kg/1.5 mm  
 (7.5 Sq. m/25 kg/2 mm)  
 (MRO 9021-PRIMER DK)



## MRO 10-222-THREAD LOCKER

'MRO 10-222-THREAD LOCKER' is a low-strength thread locker that is ideal for low-strength metals, which could fracture during disassembly, e.g. aluminum or brass. Some common applications include adjustment of screws including counter sunk head screws and setscrews, on collars, pulleys, tool holders and controllers.

### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

### || Benefits

- The thixotropic nature of MRO 10-222 reduces the migration of liquid product after application to the substrate
- Prevents loosening and leakage from shock & vibration: It occupies all gaps between mating threads and cures into a hard thermoset plastic that strengthens against shock and vibration
- Low strength: It is suitable for applications that need frequent disassembly, as it can be easily removed using standard hand tools and for metals prone to shearing
- Bonds well despite minor surface contamination due to industrial oils, e.g. motor oils, corrosion prevention oils and cutting fluids
- Works well on even passive metal surfaces like stainless steel, aluminum and plated surfaces

### || Application

- Small Screws under 1/4"
- Adjustment of set screws,
- Small diameter or long engagement length fasteners, where easy disassembly is required without shearing the screw



## MRO 10-243-THREAD LOCKER

Mechanical locking devices (such as split washers, nylon nuts, etc.) were invented to solve the common problem of loosening that happens in most threaded assemblies. The reality is, however, that they don't maintain clamp load as assemblies "locked" with mechanical devices often loosen under vibration, thermal expansion and/or improper torque. Why? Because mechanical devices don't fill the gaps between the engaging threads.

'MRO 10-243-Thread Locker' cures when confined in the absence of air between close-fitting metal surfaces and prevents loosening and leakage from shock and vibration. 'MRO 10-243-Thread Locker' provides robust curing performance. The thixotropic nature of 'MRO 10-243 Thread Locker' reduces the migration of liquid product after application to the substrate

### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

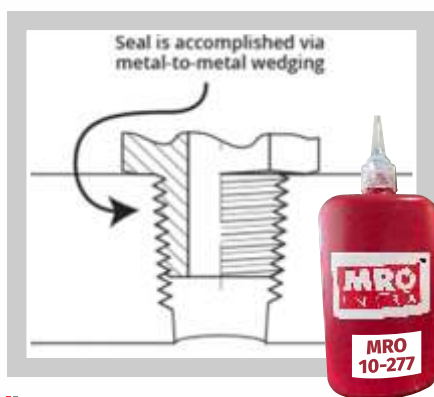
### || Benefits

- Parts can be dismantled with normal hand tools
- Provides lubricity to achieve controlled strength during assembly
- Lock against vibration and thermal expansion
- Maintain clamp load
- Seal against corrosion and leakage
- Prevents galling & seizing- allowing for reliable disassembly
- Reduce inventory costs – one bottle for all fastener shapes/sizes

### || Application

- As it tolerates minor surface contaminations from various oils, such as cutting, lubrication, anti-corrosion and protection fluids it can be used in treaded assemblies of process industries
- It can be used on active metals (e.g. brass, copper) and also on passive substrates such as stainless steel and plated surfaces





## MRO 10-277-THREAD LOCKER

'MRO 10-277 THREAD LOCKER' is high strength thread locking adhesive. Suitable for locking and sealing large bolts and studs. It is designed for the permanent locking and sealing of threaded fasteners. It cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration.

Localized heat may be required to weaken the bonds before disassembly.

### || SKU

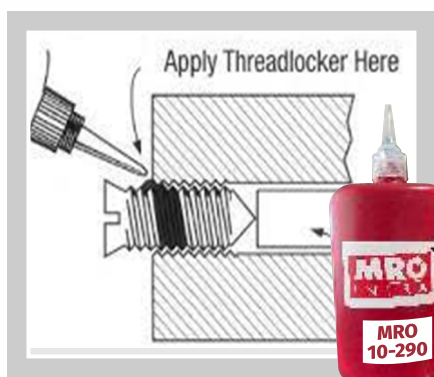
- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

### || Application

- Locking and sealing of large bolts and studs (M25 and larger)

### || Benefits

- Prevents loosening and leakage from shock & vibration: It fills all gaps between the mating threads and cures into a hard thermoset plastic that strengthens the assembly against shocks and seals the threads
- High viscosity product: The high viscosity of the product makes it ideal for applications where migration of adhesive must be prevented



## MRO 10-290-THREAD LOCKER

'MRO 10-290-THREAD LOCKER' is a liquid medium to high-strength threadlocker designed for the locking and sealing of threaded fasteners. Because of its low viscosity and capillary action, the product wicks between engaged threads and eliminates the need for disassembly prior to application. The product can also fill porosities in welds, castings and powdered metal parts.

### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

### || Application

- Wicking grade for pre-assembled parts

### || Benefits

- Prevents loosening and leakage from shock & vibration: It wicks into the grooves between the mating threads and cures into a hard thermoset plastic that strengthens the assembly against shocks and seals the threads
- Ideal for preventive maintenance as this is a wicking grade product which eliminates the need for disassembling prior to application
- Ideal for locking preassembled fasteners, e.g. instrumentation fasteners, electrical connectors and set screws
- The low viscosity of this product makes it ideal for occupying the tiniest of gaps between the threads so that proper clamp load is maintained



## MRO 10-518-GASKETING COMPOUND

A medium strength general purpose gasketing product with excellent contamination tolerance. **MRO 10-518-Gasketing Compound** cures when confined in the absence of air between close fitting metal surfaces.

### || Benefits

- Resistant to fuel, oil, coolants and hydraulic fluids
- Locks connection against vibration loosening
- Instant low-pressure seal
- Provides lubricity to achieve controlled strength during assembly

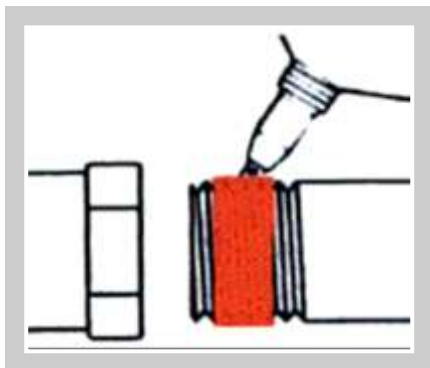


### || Application

- Ideal for use on Casted Iron, steel & aluminium flanges

### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers



## MRO 10-542-THREAD SEALANT

'MRO 10-542-THREAD SEALANT' is designed for the locking and sealing of metal pipes and fittings as well as other cylindrical metal assemblies. The product cures when confined in the absence of air between close-fitting metal surfaces and prevents loosening and leakage due to shock and vibration. The thixotropic nature of 'MRO 10-542 Thread Sealant' reduces the migration of liquid product after application to the part.



### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

### || Application

- Ideal for fine threads as used in hydraulic, pneumatic & general fittings
- It can be used on active metals (e.g. brass, copper) and also on passive substrates such as stainless steel and plated surfaces

### || Benefits

- Resistant to fuel, oil, coolants and hydraulic fluids
- Locks connection against vibration loosening
- Instant low-pressure seal
- Provides lubricity to achieve controlled strength during assembly
- Lock against vibration and thermal expansion
- Maintain clamp load
- Seal against corrosion and leakage
- Prevents galling & seizing- allowing for reliable disassembly
- Reduce inventory costs – one bottle for all fastener shapes/sizes



## MRO 10-595-HEAVY BODY NEUTRAL RTV SILICON SEALANT

'MRO 10-595-HEAVY BODY NEUTRAL RTV SILICON SEALANT' is designed for the bonding of cylindrical fitting parts, particularly with narrow bond gaps approaching 0.25 mm

### || Benefits

- High temperature resistance (-55°C to 260°C)
- Moisture curing RTV
- Tack-free time 15-60 minutes
- Gap fill 4-6 mm

### || Application

- Sealing all type of flanges

### || SKU

- 300 ml
- Case Packing: 6 numbers



## MRO 10-638-RETAINER

'MRO 10-638-RETAINER' is a high strength, fast curing, general purpose retaining compound. It is designed for the bonding cylindrical fitting parts, particularly with narrow bond gaps approaching 0.25 mm

### || SKU

- 50 ml | Case Packing: 24 numbers
- 250 ml | Case Packing: 6 numbers

### || Application

- Ideal for Shafts, gears, pulleys and similar cylindrical parts



### || Benefits

- High temperature resistance
- Tolerates minor contaminants, including industrial oils
- High strength on all metals including passive substrates e.g. Stainless steel)

## FEW OF OUR VALUABLE CLIENTS






## PRODUCT - INDEX

PRODUCT RANGE	PRODUCT SERIES	COLOR CODE		PAGE NO.
INDUSTRIAL AEROSOLS	1000	VIOLET	V	3 TO 19
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ADHESIVE & SEALANT	10000	BLACK	B	48 TO 50



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