

MRO 8001 – S PUTTY

Fast curing Steel-Filled Epoxy Putty

PRODUCT DESCRIPTION

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

BENEFITS

- Repair cost at fraction of replacement cost.
- No equipment/Power supply needed
- Excellent electrical insulation characteristics
- No VOC's so it can be applied in confined spaces
- High compressive strength and extreme chemical resistant to most acids, bases, solvents, and alkalis.
- Good resistance to abrasion, friction reduction and hence ideal for turn-around time.
- The product can 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
- Unlimited cycle of repairs possible.
- Less Labor costs - Avoid assembly/disassembly, Pre Machining/Post Machining
- Superior adhesion – forms a solid bond to steel, cast iron, Stainless steel, concrete, and clean and abraded bronze, copper, and aluminum.
- No shrinkage, expansion or distortion
- Can do repairs at In-situ repair, In-Plant, Workshops, Remote areas



APPLICATION AREAS

- 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

DIRECTIONS FOR USE

CURE

'MRO 8001 S Putty' hardens in around 2 hours at 21°C at 12.5mm thick. The functional cure time may be reduced by curing at an elevated temperature. Heating can be done with a hot box, heat lamps or other heat sources. Never expose this system to a direct flame.

SURFACE PREPARATION

- Apply Only To Clean, Firm, Dry And Well Roughened Surfaces
- Brush away loose contamination and degrease with MRO 1011 – Kleener Degreaser. Use a flame to sweat out oil from deeply impregnated surfaces.
- Roughen surfaces by blast cleaning, deeply scoring or grinding.
- Stabilize cracks by drilling the extremities. Long cracks should be drilled, tapped and bolted every 3-4 inches.
- Vee-out all cracks using a rotary file.
- Finally degrease again.

WHERE 'MRO 8001 – S Putty' SHOULD NOT ADHERE. Brush on a thin layer of Release Agent and allow to dry for 15-20 minutes before proceeding.

MIXING

'MRO 8001 - S Putty' is formulated to be a dense mix that can be applied easily to overhead and vertical surfaces without running or sagging. Add the hardener to resin and mix thoroughly on a mixing board using a spatula. Do not mix in the containers.

APPLICATION

For best results, product should be kept and applied at room temperature. 'MRO 8001 – S PUTTY' can be applied when temperatures are between 13°C and 52°C. Spread the putty over prepared surface with a putty knife. Press firmly to ensure maximum surface contact and avoid trapping air. To bridge large gaps or holes use fiberglass, expanded metal or other mechanical fasteners.

MRO 8001 – S PUTTY

Fast curing Steel-Filled Epoxy Putty

Technical Properties

| PARAMETER | VALUE |
|---|------------------------------|
| Colour | Steel Black |
| Mix Ratio By Volume | 4.5:1 |
| Mix Ratio By Weight | 4:1 |
| % Solids By Volume | 100 |
| Pot Life At 30°C / Mins | 20-25 |
| Functional Cure hrs | 24 |
| Specific Volume CC/Kg | 424 |
| Cured Shrinkage Cm/Cm | 0.001 |
| Specific Gravity | 2.0-2.5 |
| Temperature Resistance | Dry 177°C Wet 65°C |
| Coverage | 770cm ² /kg @ 5mm |
| Cured Hardness / Shore D | 87 D |
| Dielectric Strength KV/Mm | 2.2 |
| Adhesive Shear Strength N/mm ² | 14 |
| Compressive Strength N/mm ² | 120 |
| Coefficient Of Thermal Expansion X10 ⁻⁶ Cm/Cm/°C | 40 |
| Thickness Per Coat / Mm | As Required |
| Recoat Time / Minutes | 4 |
| Mixed Viscosity /Cps (Where Applicable) | Putty |

PRECAUTION

For complete safety and handling information, please refer to Material Safety Data Sheets (MSDS) prior to using this product.

SHELF LIFE & STORAGE

A shelf life of 3 years from date of manufacture can be expected when stored at room temperature (22°C) in their original containers.

HANDLING

Read instructions on the container label of the product before use. The product safety data sheet (SDS) contains the relevant information regarding PPE, safe use, and physical & health hazards. Safety data sheet is available from MRO INFRA or your local MRO INFRA Channel Partner.

DISPOSAL

All used and unused product should be disposed of in accordance with state regulations.

LIMITED WARRANTY

The information and data contained in this sheet is accurate to the best of our knowledge or is obtained from sources, tests or experiences believed by us to be reliable and accurate. User is responsible for determining whether recommended MRO INFRA product is fit for a particular purpose. All products should be tested for suitability on a particular application prior to actual use. We make no representations of any kind. Data offered without warranty.

AVAILABLE PACKAGING

1 Kg (A Part - 0.8 Kg & B Part 0.2 Kg Containers)