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BE SAFE! READ OUR PRODUCT SAFETY INFORMATION...AND PASS IT ON. PRODUCT LIABILITY LAW REQUIRES IT.

MT-700 IPI-SupeRapid™

Corrosion Resistant, Zero-VOC, Room-Temperature-Fast-Cure, Two-Component, Machinable, Metal Repair Compound

Application Data Bulletin

011512

1. Material Description

- Cures in 5-10 minutes at normal ambient temperatures (65-85F)
- Designed for machinable repairs of broken, worn, or older equipment or machine parts or filling unintended gaps, holes, and more.
- Provides in-situ, quick, cost effective, and permanent repairs at a fraction of replacement costs
- Saves downtime, labor, energy, and money by using in-house manpower, partial disassembly, and no moving or transportation.
- Cold welding, where open flames pose danger, or access is limited, or downtime is too costly.
- Solventless (zero VOC), two-component, room-temperature-fast-cure system with non-sag- paste consistency

2. Physical Properties

| Property, SM-180704 | Base | Solidifier | Mixed | Comments |
|--------------------------------|--|------------|--|---|
| Color | Gray | Off White | Light Gray | After cure, a rock-hard solid |
| Weight, grams | 286 | 168 | 454 | |
| Density, g/cc | 1.7 | 1.3 | 1.75 | May be changed without notice |
| Coverage @ 6mm / ~1/4 in | N/A | N/A | 245cm ² / ~15in ² | Thicker sections will yield less coverage. |
| Mix ratio , by weight | 1.7 | 1 | N/A | These ratios may change with the filler type and grade used in manufacturing. |
| Mix ratio, by volume (approx.) | 1.3 | 1 | N/A | |
| Potlife, min @ 25°C | N/A | N/A | 3-5 | |
| Application tools | N/A | N/A | IPI-Spatula, IPI-Applicator, or IPI-Notched trowel | |
| Touch dry time @ 25°C | N/A | N/A | 15 minutes | Longer when cool, shorter when hot (Green Cure) |
| Mechanical cure @ 25°C, | N/A | N/A | 1h | Longer when cool, shorter when hot. |
| Application Thickness | N/A | N/A | 5-15 mm | If thicker section used, apply in layers to avoid heat buildup |
| Solids contents | 100 % vol | 100 % vol | 100 % vol | No solvents / No shrinkage |
| Shelf life (storage) | Indefinite | indefinite | Cool and dry storage conditions. If Base hardens during storage, warm it in a microwave oven for 15 seconds or so to soften it. If solidifier skins over due to exposure, peel away skin and use the rest. | |
| Over-coating | N/A | N/A | 1h | In recoating, apply "wet on sticky". |
| Flammability | None | None | None | No fire, explosion, or safety risk. |
| Chemical Resistance | N/A | N/A | Resistant to most industrial acids, bases, oils, and lubricants. | |
| Adhesion, psi @ 25°C | N/A | N/A | 1,800 | Blasted carbon Steel, Elcometer |
| Mixing Instructions | Scoop out components in proper mix ratio onto a clean surface. Mix them well with a spatula until no streaks remain. Apply the mix onto properly prepared metal surfaces, which shall be clean, dry, rough, and sound. Machine after mechanical cure (1h @ 75F; longer at lower temp.) Do not apply if ambient temperature falls below 55+F during mixing, application, or cure. | | | |
| Caution | Wear gloves and goggles when using product. This product is for industrial use by trained individuals only. | | | |
| Disclaimer | Since quality of substrate, storage, handling, mixing, applying, curing, and service conditions are beyond the manufacturer's control, the manufacturer can assume no liability. Use at your own risk. | | | |