

HPR

Engineering Repair

HPR-516-M

HPR-516-M is a two component fast curing solvent free epoxy repair fluid. The product has been designed for use on a wide range of metallic surfaces and is tolerant of less than ideal surface preparation and surfaces contaminated with low viscosity oil/ lubricants.

The material can be used to make emergency repairs to worn surfaces, as an anti-slip system for metallic surfaces and for resurfacing and sealing leaking transformers.



Main characteristics -

- Two component
- Solvent free epoxy
- 1:1 mixing ratio by volume
- Usable life 5 minutes (20°C)
- Touch dry 25 minutes (20°C)
- Full Cure 45 minutes (20°C)
- 80 Rockwell R Hardness (Once fully cured)
- Applied by brush or applicator tool
- Available in 28ml syringe, 800gm pack sizes

Mechanical Properties –

Adhesion

Tensile Shear to ASTM D1002 185kg/cm² (2630psi)

Compressive strength

Tested to ASTM D 695 185kg/ cm² (2630psi)

Lap Shear

Tested to ISO 4587 240kg/ cm² (3400psi)

Peel Strength

Tested to ISO 4578 5N/mm² (725psi)

Heat Resistance

Suitable for water immersion up to 60°C and intermittent contact with steam up to 100°. Dry heat resistance up to 110°C.



Weeping/ Leaking transformer surfaces sealed using HPR-516-M.



Oil refinery steel steps degreased and coated with HPR-516-M and Aluminium Oxide aggregate. No sparks were allowed in the repair area, the material bonded to the substrate even with oil contamination on the surface.



Oil refinery pipe line socket joints manually prepared then coated and wrapped using HPR-516-M.