WEAR RESISTANT PUTTY (WR2) PRODUCT BULLETIN

Product Description

A ceramic filled epoxy putty with a smooth, low friction finish.

Features and benefits

- Rebuilds and protects interfacing metal surfaces that are subjected to wear
- Repairs metals and concrete
- Protects metal from bi-metallic corrosion

Recommended Applications

- Repairing flange faces
- Repairing machine ways
- Repairing valves seats and bodies
- Repairing tracing guides

Typical Physical Properties: Cured 7 days @ 24ºC

Colour	Dark Grey
Mixed Viscosity	Putty
% Solids by Volume	100
Cured Density	1.8 gm/cc
Cure Shrinkage ASTM D2566	0.0005 cm/cm
Specific Volume	501 cm^3/kg
Pot Life @ 24°C	60 minutes
Compressive Strength ASTM D695	67.6 MPa
Adhesive Tensile Shear ASTM D1002	15.2 MPa
Cured Hardness Shore D ASTM D2240	85D
Dielectric Strength, volts/mm ASTM D149	15,748
Coverage cm^2/kg @ 5mm thick	1005
Temperature Resistance:	Wet 54ºC Dry 121°C

Chemical Resistance: 7 days room temperature cure (30 days immersion @ 24ºC)

Kerosene	VG	Methanol	U
10% Hydrochloric Acid	F	Toluene	F
Chlorinated Solvent	VG	Ammonia	VG
10% Sulfuric Acid	F	10% Sodium Hydroxide	VG

KEY: VG = Very Good F = Fair U = Unsatisfactory

Epoxies are very good in water, saturated salt solution, leaded gasoline, mineral spirits, ASTM#3 oil and propylene glycol. Epoxies are generally not recommended for long-term exposure to concentrated acids and organic solvents.

PLEASE CONSULT TECHNICAL SERVICE FOR OTHER CHEMICALS

Directions for Use:

Proper surface preparation is essential to the success of any epoxy application. In all cases the surface should be clean, dry, free from oils, and rough.

1. Remove all oils, dirt and grease by means of a strong cleaner/degreaser (Devcon Cleaner Blend 300 is suitable for this process).
2. Roughen the surface by grit blasting (8-40 mesh grit) or grinding. A 75-125 micron profile is desired for most applications.
3. All abrasive preparation should be followed by another cleaning to remove any remnants from that process.
4. Ideal application temperature is 13°C-32°C. Under cold conditions, heating the repair area to 38° - 43°C is recommended.
5. Add hardener to resin and mix thoroughly with a putty knife until a uniform, streak-free consistency is obtained (about 4 minutes).

Mix Ratio – Resin to hardener: Weight 9:1, Volume 4:1

6. Spread mixed material over the repair area and work firmly into the substrate to ensure maximum surface contact.
7. To bridge large gaps or holes, use fibreglass tape, expanded metal or mechanical fasteners.

Cure:

- Working time is 45 minutes @ 24°C
- Functional (75%) cure is achieved in 16 hour @ 24°C
- For maximum physical properties, heat cure for 4 hours @ 93°C after curing at room temperature for 2-1/2 hours

Precaution

Use in accordance with Material Safety Data Sheet.

Warranty: Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Warning: For industrial use only.

ORDERING INFORMATION

Stock No.	Unit Size
11410	0.5kg

MANUFACTURED BY
ITW Polymers & Fluids
100 Hassall Street
Wetherill Park NSW 2164

QUEENSLAND DISTRIBUTOR
INTERNATIONAL TRADERS Pty Ltd
6/286 Evans Rd
Salisbury - BRISBANE - QLD 4107
Phone (07) 3272 9051 Fax (07) 3272 9744