



WET SURFACE PUTTY

PRODUCT BULLETIN

Product Description

Makes effective repairs in wet and dry environments.

Features and benefits

- Non-rusting formulation
- Applies and cures in temperatures down to 4°C
- Penetrates moisture to bond metal, concrete and wood
- May be used in salt/fresh water
- Non-sagging putty

Recommended Applications

- Repairing and refitting pipes, valves, pumps and tanks
- Repair concrete pipes and vessels wood. in wet environments

Typical Physical Properties: Cured 7 days @ 24°C

Colour	Grey
Mixed Viscosity	Putty
% Solids by Volume	100
Cured Density	1.6 gm/cc
Cure Shrinkage ASTM D2566	0.0020 cm/cm
Specific Volume	625 cm³/kg
Pot Life @ 24°C	45 minutes
Compressive Strength ASTM D695	38.8 MPa
Adhesive Tensile Shear ASTM D1002	18.5 MPa
Cured Hardness Shore D ASTM D2240	82D
Dielectric Strength, volts/mm ASTM D149	5,900
Coverage cm²/kg @ 5mm thick	1250
Temperature Resistance:	Wet 49°C Dry 120°C

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

Kerosene	VG	Methanol	U
10% Hydrochloric Acid	F	Toluene	VG
Chlorinated Solvent	U	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

NOTE: This bulletin was prepared in good faith from the best information available at the time of issue.
However, users should confirm that the product is acceptable for their intended purposes.

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Directions for Use:

Proper surface preparation is essential to the success and performance of any epoxy application. In all cases, the application surface should be clean, dry, free from oils, and rough. Remove all oils, dirt and grease by means of a strong cleaner / degreaser (Devcon Cleaner Blend 300 is suitable for this process). Roughen the surface by grit blasting (8-40 mesh grit) or grinding. A 75 -125 micron profile is desired for most applications. All abrasive preparation should be followed by another cleaning to remove any remnants from that process.

For Underwater or submerged repairs consider the following:

1. Remove all dirt, barnacles, flaking paint, and algae / seaweed from the substrate.
2. Wipe area with a clean cloth to remove any film on the surface. Obviously you cannot degrease underwater, but wiping and turning a clean cloth often will remove any film on the surface.
3. Abrade the surface if possible. (Use mechanical means or a file to accomplish.)
4. The oxidation can be removed by mechanical means, such as water, grit-blasting, or by chemical means.
5. Make the repair as soon as possible to avoid surface contamination.

Mix Ratio – Resin to hardener: Weight 1.40:1, Volume 1:1

Add hardener to resin. Mix thoroughly with screwdriver or similar tool until a uniform, streak-free consistency is obtained, about 4 minutes. Be sure to mix material from bottom and sides of container .

Application:

For best results, product should be kept and applied at room temperature. Wet Surface Repair Putty can be applied when temperatures are between 4°C and 32°C. When temperatures are below 21°C, full cure and pot life will be longer, and above room temperature, cure and pot life will be shorter. Spread Wet Surface Repair Putty over prepared surface with applicator (enclosed), or putty knife. Press firmly to ensure maximum surface contact and avoid entrapping air. To bridge large gaps or holes use fiberglass, expanded metal or other mechanical fasteners. Apply a minimum of 1.5mm thick.

Cure:

A 12mm thick section of Wet Surface Repair Putty will harden at 24°C in 4 hours. The material will be fully cured in 16 hours at which time the material can be machined, drilled, or painted. The actual cure time of epoxy is determined by the size of the mass of epoxy and the temperature. Wet Surface Repair Putty may be troweled on a vertical surface up to 6mm thick without sagging.

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
11800	0.5kg

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ITW Polymers & Fluids
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