

Megawear

Trowelable Ceramic Wear Resistant Coating

Description:	High density, micro alumina ceramic bead-filled, toughened epoxy system with urethane acrylate for superior impact abrasion used for protecting equipment against wear, abrasion and erosion.
Intended Use:	Coal lines, cyclones, screens, pumps, scrubbers, screens, chutes, handling equipment and screw conveyers.
Product features:	Fast Functional Cure Time of 3 Hours Addition of Urethane Acrylate for Enhanced Impact Resistance Non-Sagging Creamy Paste High Compressive Strength Extremely Wear Resistant

Typical Physical Properties:

Technical data should be considered representative or typical only and should not be used for specification purposes.

Colour	Light Grey
Compressive Strength	>90 MPa
Coverage	0.79 m² @ 6 mm thick
Mix Ratio by Weight	24:1 (Resin : Hardener)
Pot Life @ 24°C	20 minutes.
Functional Cure Time @ 24°C:	3 hours @ 12 mm thick
Maximum Hardness Time @ 24°C:	16 hours @ 12 mm thick
Solids by Volume	100
Specific Gravity	2.1 g/cm³
Temperature Resistance	Wet: 60°C; Dry: 120°C

Surface Preparation:

1. Thoroughly clean the surface with Devcon® Surface Cleaner to remove all oil, grease, and dirt.
2. Grit blast surface area with 8-40 mesh grit, or grind with a coarse wheel or abrasive disc pad, to create increased surface area for better adhesion (Caution: An abrasive disc pad can only be used provided white mesh is revealed). Desired profile is 75 - 125 µm, including defined edges (do not 'feather-edge' epoxy).

 Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast the area, then leave overnight to allow any salts in the metal to "sweat" to the surface. Repeat blasting to "sweat out" all soluble salts. Perform chloride contamination test to determine soluble salt content (should be no more than 40ppm).
3. Clean surface again with Devcon® Cleaner Blend to remove all traces of oil, grease, dust, or other foreign substances from the grit blasting.
4. Repair surface as soon as possible to eliminate any changes or surface contaminants.

WORKING CONDITIONS: Ideal application temperature is 13°C to 32°C. In cold working conditions, heat repair area to 38 - 43°C immediately prior to applying epoxy to dry off any moisture, contamination, or solvents, as well as to assist epoxy in achieving maximum adhesion properties.

Mixing Instructions:

- It is strongly recommended that full units be mixed, as ratios are pre-measured. ----
1. Add hardener to resin
 2. Mix thoroughly with spatula or similar tool (continuously scrape material away from sides and bottom of container) until a uniform, streak-free consistency is obtained.
- OR
- Place resin and hardener on a flat, disposable surface such as cardboard, plywood, or plastic sheet). Use a trowel or wide-blade tool to mix the material as in Step 2 above.

Application Instructions:

ADDITIONAL SURFACE PREPARATION INFORMATION:

If grit blasting is not possible, and expandable metal cannot be used, apply Devcon® Brushable Ceramic at 280 - 460 µm to prime the metal surface. Allow to cure for approximately 2 hours, or until a fingernail can almost depress the primed surface. Immediately apply Megawear to the surface. DO NOT let the "prime coat" fully cure before applying Megawear.

Spread mixed material on repair area at a minimum thickness of 6 mm. Work firmly into substrate to ensure maximum surface contact.

Water may be used sparingly to assist trowelling to a smooth surface. Use the minimum quantity of water necessary. Best results 10 minutes after mixing.

Megawear fully cures in 16 hours, at which time it can be machined, drilled, or painted.

FOR BRIDGING LARGE GAPS OR HOLES

Place fiberglass sheet, expanded metal, or mechanical fasteners between repair area and Megawear prior to application.

FOR VERTICAL SURFACE APPLICATIONS

Megawear can be trowelled up to 12 mm thick without sagging.

FOR MAXIMUM PHYSICAL PROPERTIES

Cure at room temperature for 1.5 hours, then heat cure for 2 hours @ 90°C.

FOR ± 21°C APPLICATIONS

Applying epoxy at temperatures below 21°C lengthens functional cure and pot life times. Conversely, applying above 21°C shortens functional cure and pot life.

Storage:

Store at room temperature.

Precautions:

Please refer to appropriate safety data sheet (SDS) prior to using this product.

For technical assistance, please call 1800-063-511
FOR INDUSTRIAL USE ONLY

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.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and Devcon makes no representations or warranties of any kind concerning this data.

Order Information:

D11485 5 kg

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