Technical Data Sheet
Version 3. 04/2023

DFense Blok™ Surface Wetting Agent

Description: Thixotropic epoxy gel system that improves ease of application and cured adhesion properties (shear, peel, impact) of Devcon® DFense Blok™ abrasion resistant product.

Intended Use: Apply to substrate surface prior to using DFense Blok™ for better adhesion.

Features: **Requires no waiting to apply topcoat, Excellent chemical resistance, Non-sagging**

Limitations: Recommended minimum application thickness of 0.01" (0.254 mm)

Typical Physical Properties:

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

Cured 7 Days @ 75°F (24°C)	
Adhesive Tensile Shear	2,616 psi (18 MPa)
Color	Orange
Compressive Strength	5,032 psi (35 MPa)
Cured Hardness	71 Shore D
Flexural Strength	6,700 psi (46 MPa)
Solids by Volume	100%
Specific Volume	24.7 in3/lb (0.892 cm3/g)
Temperature Resistance	300 °F (149°C)

Uncured Properties @ 72°F (23°C)	
Coverage (12 mil / 0.305mm)	12.9 ft2/lb (2.65 m2/Kg)
Cure Time	16 hours
Functional Cure	4-5 hours @ 72°F (22°C)
Mix Ratio by Volume	2:1
Mix Ratio by Weight	100:44
Mixed Density	9.2 lb/Gal (1.15 g/cm3)
Mixed Viscosity	Thixotropic Gel
Pot Life @ 75 °F	12-15 minutes @ 72°F (22°C)
Topcoat Application Time	0-45 minutes

Standard Tests
Cured Hardness Shore D ASTM D 2240
Compressive Strength ASTM D 695
Flexural Strength ASTM D 790
Adhesive Tensile Shear ASTM D 1002

Surface Preparation:

1. Thoroughly clean the surface with Devcon® Cleaner Blend 300 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 metal is revealed). Desired profile is 3-5mil, 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 300 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 55°F to 90°F (13- 32°C). In cold working conditions, directly heat the repair area to 100-110°F (38-43°C) prior to applying epoxy and maintain at this temperature during product cure to dry off any moisture, contamination or solvents, as well as to achieve maximum performance 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 screwdriver or similar tool (continuously scrape material away from sides and bottom of container) until a uniform, streak-free consistency is obtained.

INTERMEDIATE SIZES (1,2,3 lb. units): 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

LARGE SIZES: (25 lb., 30 lb., 50 lb. buckets): Use a T-shaped mixing paddle or a propeller-type Jiffy Mixer Model ES on an electric drill. Thoroughly fold putty by vigorously moving paddle/propeller up and down until a homogenous mix of resin and hardener is attained.

Application Instructions:

- Add hardener to resin and mix thoroughly until colors blend and become uniform, approximately 3 minutes.
- Apply the mixture to surface with spatula, trowel, etc.

- Apply at a thickness of 0.01" to 0.02". (0.254 mm to 0.508 mm)
- Apply topcoat of Dfense Blok™ within 0 - 45 minutes of mixing/applying Dfense Blok™ Surface Wetting Agent. Should this window be exceeded and the Dfense Blok™ Surface Wetting Agent becomes firm, a recoat with fresh Dfense Blok™ Surface Wetting Agent is recommended.

Storage: Store at room temperature, 70°F (21°C).

Compliances: None

Chemical Resistance: Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F (24°C)

Gasoline (Unleaded)	Fair
Hydrochloric 10%	Very good
Mineral Spirits	Poor
Sodium Hydroxide, 50%	Excellent
Sulfuric 10%	Very good

Precautions: **FOR INDUSTRIAL USE ONLY:** Please refer to the appropriate **S**afety **D**ata **S**heet prior to using this product.

Warranty: ITW Performance Polymers 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.

Order Information:

Item No.	Package Size
11340	1 lb. kit (454 g)

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