



A brand of ITW Polymers Adhesives North America

# 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.

**Product features:**  
Requires no waiting to apply topcoat  
Excellent chemical resistance  
Non-sagging

**Limitations:** Recommended minimum application thickness of 0.01"

**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**

Adhesive Tensile Shear	2,616 psi
Color	Orange
Compressive Strength	5,032 psi
Cured Hardness	71 Shore D
Flexural Strength	6,700 psi
Solids by Volume	100 %
Specific Volume	24.7 in(3)/lb
Temperature Resistance	300 °F

**TESTS CONDUCTED**

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

**Uncured**

Coverage	1860 sq in / lb @ 12 mil
Full Cure	16 hours
Functional Cure	4-5 hours @ 72°F
Mix Ratio by Volume	2:1
Mix Ratio by Weight	100:44
Mixed Density	9.2 lbs/gallon, 1.1 g/cc
Mixed Viscosity	Thixotropic Gel
Pot Life, 1 lb	12-15 minutes @ 72°F
Topcoat Application Time	0-45 minutes

**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. In cold working conditions, directly heat repair area to 100-110°F 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".
- 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.

**Compliances:**

None

**Chemical Resistance:**

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

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

**Precautions:**

Please refer to the appropriate material safety data sheet (MSDS) prior to using this product.

**For technical assistance, please call 1-800-933-8266**

**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 Devcon makes no representations or warranties of any kind concerning this data.

**Order Information:**

11340 1 lb kit