



Solvent Free Epoxy Filler Adhesive

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Product Description

ShieldFix BF is a two component non shrinking solvent free epoxy filler. It is high strength, providing the abrasion resistance and compressive strength higher than concrete.

- ✓ 100% solids content
- ✓ High thickness
- ✓ Excellent barrier properties
- ✓ Good abrasion resistance
- ✓ Light weight
- ✓ Excellent adhesion to steel & concrete
- ✓ Non shrink

Intended Uses

- ShieldFix BF is designed for the protection of correctly prepared, corroded, and pitting steel prior to coating maintenance. Can also be used as crevice filler for back-to-back structural steel and hard to reach areas.

Properties

Finish	Gloss
Color	Light Gray
Components	2
Mixing Ratio (by weight)	Resin 8MEG-801 2 parts Cure 8MEG-802 1 part
Pot Life of the Mixture	60 minutes at 25 °C
Volume Solids	100 % (ISO 3233)
Specific Weight	1.57 ± 0.02 g/mL
Dry Film Thickness	1000 -12 500 µm per coat
Number of Coats	1-2
Application Method	Trowel, hand, or spatula
Theoretical Coverage	1 m ² /L at 1000 µm 0.2 m ² /L at 5000 µm Allow for application losses, surface irregularities, etc.
Drying Time	at 25 °C and 3000 µm: superficial 4 hours Total dry 12 hours Fully cured 7 days Recoating: Min: 4 hours – Max: 36 hours Drying times are dependent on temperature, ventilation, and film thickness.

Paint Systems

Steel:

Apply by trowel, spatula, or hand C-Pox EP Filler to desired dry film thickness.

Concrete:

Apply one coat of ShieldPrime CA sealer.

Apply by trowel or spatula ShieldFix BF filler to desired dry film thickness.

Surface Preparation

Steel:

Blast steel with abrasive blasting to grade Sa 2½ according to ISO-8501-1. The roughness profile should be 50-90 µm, depending on the thickness of the product to be applied. Remove dust and abrasive residues from the surface.

Surface must be free of moisture, grease, and other contaminants. Apply ShieldFix BF Filler as soon as possible to keep steel from rusting.

Concrete:

Light abrasive blasting to remove all previous coating, chalk, and surface glaze or laitance. After blasting, the surface must be regular, without cavities, holes, voids, or defects.

Application

Product temperature should be under 25 °C to ensure a long pot-life which permits application. Application instructions must be strictly followed. For brush or roller applications, it is recommended to use small containers to facilitate application within pot-life period.

Add cure to resin solution and stir material for 5 minutes. In confined areas ventilate with clean air during application and drying. Always mix a complete unit in the proportions supplied. Using a trowel or gloved hand apply the remaining material at 1-12mm thickness or as specified. Dip trowel or hands in water during application to prevent material adhering to it during application. Any mixed material will not be usable after 60 minutes.

Environmental application and drying conditions:

- Air Temperature : 10 - 45°C
- Relative humidity : 0 - 85%
- Minimum surface temp.: 3°C above dew point

Maximum Surface temp. : 45°C

Application equipment:

- Airless Sprayer** Not recommended to do thin
- Trowel, Hand, or Spatula**

Cleaner:

7Q-100 (C-Pox Thinner)

Remarks

It is not suitable for hot water storage tanks or tanks that contain liquids above 60 °C.

Additional Information

Curing Mechanism – By reaction between components

Volatile Organic Compounds (VOC)

UE limit for the product (cat. A/j): 500 g/L

This product contains max. 75 g/L (TVOC: 6 %) COV. *)

Supplying form: <15 g/L (TVOC: < 1 %)

VOC Resin: 0 g/L (TVOC: 0 %)

VOC Cure: 44 g/L (TVOC: 4 %)

VOC Additive: 833 g/L (TVOC: 85 %)

VOC Cleaner 7Q-100: 839 g/L (TVOC: 100 %)

* The VOC value shown above refers to a ready for use product, as tinted, thinned, etc in accordance with our recommendations. We are not responsible for products obtained by mixing products with are different from those we have recommended, and we must draw attention to the responsibility of anyone involved within the supply chain not to infringe Directive 2004/12/CE.

Flashpoint (Closed Container)

- Resin : non flammable
- Cure : non flammable
- Additive : -4°C
- Cleaner 7Q-100 : 25 °C
- Cleaner 7S-902 : 16 °C

Packaging

Resin : 6 and 2 L

Cure : 3 and 1 L

Storage

Resin: 2 years when stored indoors in original containers at 5 to 40 °C.

Cure: 1 year when stored indoors in original containers at 5 to 40 °C.

Health, Safety, and the Environment

- ✓ Protect the eyes and skin from contact.
- ✓ Gloves, goggles, and appropriate clothing should be worn.
- ✓ Keep out of the reach of children.
- ✓ Use only in well ventilated areas.
- ✓ Do not empty into drains.
- ✓ Keep the container properly sealed and stored in the correct place.
- ✓ Take correct measures when transporting the product to avoid any accidents that could rupture the can or cause damage to the packaging.
- ✓ Ensure that the container is correctly stacked in a safe area.
- ✓ Do not store or use the product in extreme temperature conditions.
- ✓ Always take account of the appropriate legislation relating to the environment and Health and Safety at Work.

For more information it is essential to read the label on the container and the Material Safety Data Sheet of this product, its components and all complementary products referred on Technical Data Sheet.

DISCLAIMER

The information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials and equipment used, as well as varying working conditions and environments beyond our control we strictly recommend carrying out intensive trials to test the suitability of our products regarding the required processes and applications. This data sheet is provided free of charge, and we do not accept any liability regarding the above information or regarding any verbal recommendation, except for cases where we are liable of gross negligence or false intention.