Technical Data Sheet
Version 4. 02/2025

Epoxy Concrete Sealer / Sealer 100

Description: A 100% solids, two-component, self-leveling, non-voc clear epoxy sealer for sealing and water-proofing concrete, masonry, and wood surfaces

Intended Use: Industrial Use: Ideal clear coating high traffic areas. A good primer for damp surfaces before applying a top coat.

Features:
Resists industrial chemicals
Applies with brush or roller
Bonds to damp surfaces
Applies at temperatures as low as 40°F (4°C)

Limitations: Suitability of product is determined by the end user for their application and process.

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)	Typical Values	Standard Tests
Hardness	85 Shore D	Shore D ASTM D 2240
Solids by Volume	100	
Temperature Resistance	Wet: 100°F (38°C); Dry: 180°F (82°C)	
Uncured Properties @ 72°F (23°C)		
Application Temperature	40°F - 90°F (4°C - 32°C)	
Color	Clear	
Coverage (8 mil / 0.2mm)	200 ft2/Gal (3 m2/Kg)	
Cure Time	Ft.traffic,24hrs., full serv.72h	
Functional Cure	24 hrs	
Maximum Recoat Time @ 75°F (24°C)	8-10 hrs.	
Mix Ratio	2.2:1 by volume;2.8:1 by wt.	
Mixed Viscosity	2,000 cP	
Pot Life @ 75F	60 min.	

Surface Preparation:

Concrete & Masonry: Begin with a sound, clean, dry and roughened, oil-free application surface, as it is essential to the success and performance of this product. For proper surface preparation, refer to Concrete or Masonry Surface Preparation as detailed by: **SSP/NACE SSPC-SP13/NACE 6**, or **ICRI No. 310.2R, CSP 1-3**. for proper surface preparation guidelines.

Atmospheric: SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 1-3
Immersion: SSPC-SP13/NACE 6-4.3.1 or 4.3.2 or ICRI No. 310.2R, CSP 1-3

NEW POURED CONCRETE, allow to fully cure (28 days @ 70°F (21°C)) prior to application. Remove any curing membrane by sanding or etching with a strong detergent. Remove any laitance if present.

OLD CONCRETE, thoroughly clean surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shotblasting, sanding, or grinding. Proceed as for new poured concrete.

PREVIOUSLY COATED CONCRETE, applications should be considered short term because the coating system is only as strong as its weakest component. Remove any peeling or degraded paint by sanding or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete.

Metal: If metal is also being coated, **Primer is required**. It is recommended to use a wire brush or sandpaper to remover rust and scale from the surface to be protected. Surfaces may be shot blasted or abraded using a wire wheel for best results. All dirt, grease and old paint should be removed. A clean dry surface is essential for the best results. A metal primer is required and is sold separately. See **SSPC-SP1** or **SSPC-SP10/Nace2** for metal cleaning. Optimal profile 2 mils / 50 microns

Atmospheric: SSPC-SP6/NACE 3, ISO 8501-1 Sa2 ,2 mil (50 micron) profile
Immersion: SSPC-SP10/NACE 2, ISO 8501-1 SA2.5, 2-3 mil (50-75 micron) profile

Mixing Instructions:

1. Pour hardener into resin.
2. Mix for about three (3) minutes using a propeller-type Jiffy Mixer Model ES (or equivalent) until a uniform color is achieved.

Application Instructions:

For best results, Epoxy Concrete Sealer should be stored and applied at room temperature.

PRIOR TO APPLICATION:
1. Fill large holes with a patching compound (Devcon Floor Patch or Devcon Ultra Quartz is recommended).

APPLICATION:
Apply Epoxy Concrete Sealer onto floor with a notched squeegee, then “back roll” for a smooth finish (a 3/8” or ½” nap roller is recommended for best results). Coverage will vary based on surface conditions.

After applying the first coat, the need for a second coat can be assessed based on floor condition and end user's objectives. When applying a second layer, the maximum recoat time recommendation is 8-10 hours.

Epoxy Concrete Sealer when used as topcoat produces a smooth finish, which can be slippery, especially when wet. To prevent slipping, add a non-skid aggregate, such as ground walnut shells or dry sand, to the coating.

Storage: Shelf life 3 yrs from manufacture. See package label. Store at room temperature, 70 °F (21°C)

Compliances: Approved in the U.S. for use in meat and poultry processing plants.
Accepted by Canadian Department of Agriculture Food Safety Service.

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

1,1,1-Trichloroethane	Excellent	Methylene Chloride	Very good
Ammonium Hydroxide 20%	Very good	Phosphoric 10%	Very good
Cutting Oil	Very good	Phosphoric 50%	Poor
Gasoline (Unleaded)	Very good	Potassium Hydroxide 40%	Excellent
Hydrochloric 10%	Very good	Sodium Hydroxide 50%	Excellent
Hydrochloric 36%	Poor	Sodium Hypochlorite	Very good
Methanol	Poor	Sulfuric 10%	Very good
Methyl Ethyl Ketone	Poor	Sulfuric 50%	Poor

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		
12560	2 gal. (7.5L)	Americas	Epoxy Concrete Sealer
12540	5 Kg	EMEA	Sealer 100

Contacts:

www.itwpp.com

ITW Performance Polymers (EMEA)
Bay 150, Shannon Industrial Estate
Shannon, County Clare, Ireland V14 DF82
TEL: +353 61 771 500
FAX: +353 61 471 285
Email: customerservice.shannon@itwpp.com

ITW Performance Polymers (US)
30 Endicott Street
Danvers, MA 01923 USA
TEL: 855 489 7262
FAX: 978 774 0516
Email: info@itwpp.com