Technical Data Sheet
Version 5. 02/2025

Epoxy Coat™ 7000 AR

Description: An acid-resistant, room-temperature cured, 100% solids, epoxy coating

Intended Use: Industrial Use: Ideal coating for chemical storage tanks, dike walls, and containment areas where chemical resistance to acids are needed

Features:
High build (8-10 mils) (0.20-0.25 mm)
Superior resistance to concentrated acids (including 98% sulfuric)
Applies with brush or roller
Excellent adhesion to concrete surfaces
Novolac resin

Limitations: Suitability of product is determined by the end user for their application and process.
Not recommended for outdoor use

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: 130°F (54°C); Dry: 200°F (93°C)	
Uncured Properties @ 72°F (23°C)		
Application Temperature	60-90°F (16-32°C)	
Color	Gray	
Coverage (16 mil / 0.4mm)	100 ft2/Gal (2.5m2/L)	
Cure Time	24 hrs	
Cure Time - Full Chemical	10 days	
Cure Time - Full Service	48 hrs	
Functional Cure	24 hrs	
Maximum Recoat Time @ 75°F (24°C)	6-8 hrs	
Mix Ratio	1.7:1 by weight./1.5:1 by volume	
Mixed Viscosity	3,600 cP	
Pot Life @ 75°F (24°C)	36 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. As seen in the Application section below, **a primer sealer is required**.

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:

PRIOR TO APPLICATION:
1. Fill large holes with a patching compound (Devcon Floor Patch or Devcon Ultra Quartz is recommended).
2. Apply the required precoat primer: Sealer 100 (sku# 12540 EMEA) or Concrete Sealer (sku# 12560 Americas) to concrete/cement prepared Surface. See Technical Data Sheets on Sealer 100 and Concrete Sealer for specific product details.

APPLICATION:
Apply Epoxy Coat 7000 AR onto previously applied Concrete Sealer primer with a notched squeegee, then “back roll” for a smooth finish (a 3/8” (9.5 mm) or 0.5 in. (12.5 mm) 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 is 6-8 hours.

Epoxy Coat 7000 AR 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: 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)

Acetic (Dilute) 10%	Poor	Nitric 50%	Fair
Cutting Oil	Excellent	Phosphoric 50%	Excellent
Gasoline (Unleaded)	Excellent	Potassium Hydroxide 40%	Very good
Methanol	Poor	Sodium Hydroxide 50%	Excellent
Methyl Ethyl Ketone	Poor	Sodium Hypochlorite	Excellent
Hydrochloric 36%	Excellent	Sulfuric 10%	Excellent
Methylene Chloride	Poor	Sulfuric 98%	Excellent
Nitric 10%	Excellent	Toluene	Excellent

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**
12750	2 gal. (7.56 Liter)

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

Disclaimer: