



TECHNICAL DATA SHEET – EPOXY COAT 7000 AR
A 100% SOLIDS, 2-COMPONENT NOVALAC EPOXY, SELF-LEVELLING,
CHEMICAL-RESISTANT COATING

Revised: 05/2018

ORDERING INFORMATION

STOCK NO.: 12750

PACKAGE SIZE: 2USG (7.56L)

DESCRIPTION

A 100% solids, 2-component Novalac Epoxy, self-levelling, chemical-resistant coating.

RECOMMENDED APPLICATIONS

- Excellent resistance to a range of acids including 98% Sulphuric.
- Primary and secondary containment for aggressive chemicals.
- Protecting floors from chemical attack.

APPROVALS

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

PRODUCT DATA

TYPICAL PHYSICAL PROPERTIES

COLOUR	LIGHT GREY
MIX RATIO BY VOLUME	1.45: 1
MIX RATIO BY WEIGHT	1.7 : 1
% SOLIDS BY VOLUME	100
POT LIFE AT 25°C/ MINS	35
SPECIFIC VOLUME CC/KG	885
CURED SHRINKAGE CM/CM	N/A
DENSITY G/CM ³	1.13
TEMPERATURE RESISTANCE / °C	Wet 50°C Dry 90°C
COVERAGE	2.5m ² /L @ 0.40mm
CURED HARDNESS / SHORE D	85
DIELECTRIC STRENGTH KV/MM	N/A
ADHESIVE TENSILE SHEAR / MPA	N/A
COMPRESSIVE STRENGTH MPA	N/A
COEFFICIENT OF THERMAL EXPANSION X10 ⁻⁶ CM/CM/°C	N/A
THICKNESS PER COAT / MM	0.20mm
FUNCTIONAL CURE TIME /HOURS	24
FULL CURE (MAXIMUM CHEMICAL RESISTANCE) / DAYS *	10
MINIMUM RECOAT TIME / HOURS	3
MAXIMUM RECOAT TIME / HOURS	8
MIXED VISCOSITY /CPS (WHERE APPLICABLE)	3600

* Full cure can be accelerated by heating to 80oC for 4 hours after the functional cure time

CHEMICAL RESISTANCE - 7 DAYS ROOM TEMPERATURE CURE (30 DAYS)

	POOR	FAIR	VERY GOOD	EXCELLENT
ACETIC ACID 10%	•			
CUTTING OIL				•
TOLUENE				•
GASOLINE (UNLEADED)				•
HYDROCHLORIC ACID 37%				•
METHYL ETHYL KETONE (MEK)	•			
METHYLENE CHLORIDE	•			
SODIUM HYPOCHLORITE 5% (BLEACH)				•
SODIUM HYDROXIDE 50%				•
SULPHURIC ACID 98%				•
POTASSIUM HYDROXIDE 40%			•	

Excellent = +/- 1% weight change, Very Good = +/- 1-10% weight change, Fair = +/- 10-20% weight change, Poor = > 20% weight change

APPLICATION INFORMATION

SURFACE PREPARATION

For METAL SURFACES, firstly degrease and then an abrasive blast to SA 2½, if conditions mean this is not practical then use of a wire brush or sandpaper to remove rust and scale from the surface to be protected is a bare minimum. This prep should be followed by dedusting before proceeding with the coating process.

For NEW POURED CONCRETE, allow to fully cure (28 days @ 70°F) prior to application. Remove any curing membrane and laitance by wet or dry abrasive blasting, high pressure water jetting or sanding. An environmentally safe acid etch is also suitable.

For OLD CONCRETE, depending on previous use, thoroughly clean surface with a greasecutting detergent to remove grease and oils if required. Remove any loose or unsound concrete by scarifying, wet or dry abrasive blasting, high pressure water jetting sanding, or grinding.

For PREVIOUSLY COATED CONCRETE, it is recommended that any existing coating be completely removed in order that the concrete surface is exposed, any coating applied onto an existing coating could have an adverse reaction with it or reduce the bond strength of said original coating resulting in premature failure of the system.

For any concrete surface it is important to fill large holes and undertake appropriate crack repairs with a suitable patching compound before proceeding.

Devcon Concrete Sealer 100 or Epoxy Concrete Sealer can be applied to shot-blasted or etched concrete surfaces to seal prior to the application of other Devcon Floor Savers™ products although it is not essential.

MIXING

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

APPLICATION

For best results, Epoxy Coat 7000 AR should be stored and applied at room temperature.

Onto Steel the surface should be prepared as described above and then the Epoxycoat 7000AR can be applied by brush or roller to the desired thickness in the required number of coats.

Onto concrete, Epoxy Coat 7000 AR can be applied by squeegee for horizontal surfaces, then “back rolled” for a smooth finish with a short or medium nap roller. For vertical surfaces it can be applied by either brush or roller taking care not to over apply or the finish will be left with runs in it. Coverage will vary depending on surface condition.

Epoxy Coat 7000 AR produces a smooth finish, which can be slippery, especially when wet. As such for any walkways it is recommended that a non-skid aggregate is added to the coating. Cure figures quoted in the Product data section are based on RT cure.

SHELF LIFE & STORAGE

A shelf life of 2 years from date of manufacture can be expected when stored at room temperature.

PRECAUTION

For complete safety and handling information, please refer to Material Safety Data Sheets 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.

DISCLAIMER

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

For product information visit www.devconeurope.com alternatively for technical assistance please call +353 61 771 500.