

# EPOXY COAT 7000 AR

## PRODUCT INFORMATION

	<u>Stock No.</u> 12750	<u>Package Size</u> 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 <sup>3</sup>	1.13
	Temperature resistance / °C	Wet 50°C Dry 90°C
	Coverage	2.5m <sup>2</sup> /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 <sup>-6</sup> 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 80°C for 4 hours after the functional cure time

Chemical Resistance	<b>7 days room temperature cure (30 days)</b>			
	Acetic Acid 10%	Poor	Methylene Chloride	Poor
	Cutting Oil	Excellent	Sodium Hypochlorite 5% (Bleach)	Excellent
	Toluene	Excellent	Sodium Hydroxide 50%	Excellent
	Gasoline (Unleaded)	Excellent	Sulphuric Acid 98%	Excellent
	Hydrochloric Acid 37%	Excellent	Potassium Hydroxide 40%	Very Good
	Methyl Ethyl Ketone (MEK)	Poor		

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



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## **APPLICATION INFORMATION**

Surface Preparation	<p>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,</p> <p>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.</p> <p>For OLD CONCRETE, depending on previous use, thoroughly clean surface with a grease-cutting 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.</p> <p>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.</p> <p>For any concrete surface it is important to fill large holes and undertake appropriate crack repairs with a suitable patching compound before proceeding.</p> <p>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.</p>
Mixing	<ol style="list-style-type: none"> <li>1. Pour hardener into resin.</li> <li>2. Mix for about three minutes using a propeller-type Jiffy Mixer Model ES (or equivalent) until a uniform colour is achieved.</li> </ol>
Application	<p>For best results, Epoxy Coat 7000 AR should be stored and applied at room temperature.</p> <p>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.</p> <p>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.</p> <p>Coverage will vary depending on surface condition.</p> <p>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.</p> <p>Cure figures quoted in the Product data section are based on RT cure.</p>
Shelf Life & Storage	<p>A shelf life of 2 years from date of manufacture can be expected when stored at room temperature.</p>
Precaution	<p>For complete safety and handling information, please refer to Material Safety Data Sheets prior to using this product.</p>
Warranty	<p>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.</p>
Disclaimer	<p>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.</p>



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