

AMERLOCK 400

High Build High Solids Epoxy Floor Coating

Data Sheet: 400 FC

Issued 09/06

Composition	Two pack high solids high build epoxy resin based floor coating cured with modified polyamide curing agents.			
Uses and Properties	<p>AMERLOCK 400 has been developed to provide a hard durable coating for concrete floors which will be subjected to abrasion and chemical spillage. It has particularly good resistance to petrol, oils and grease and therefore is ideal for mechanical workshops.</p> <p>AMERLOCK 400 may be applied at low substrate temperatures (minimum 5°C) also to damp surfaces and will cure to a very hard, glossy opaque film suitable for mild impact, heavy foot traffic and rubber tyred vehicles.</p> <p>The cured AMERLOCK 400 (2 coats) has moderate non-slip characteristics. The broadcasting of granular material (e.g. 50 / 100 Silica) into the wet paint will achieve a more defined non-skid texture suitable for wet conditions. For heavy duty use, other aggregates should be selected.</p>			
Typical Applications	Concrete floors for warehouses, production areas, computer access floors, showrooms, change rooms, vehicle workshops, mining industry.			
Typical Systems	Substrate	Surface Preparation	Typical Systems	dft µm
	Concrete (steel trowel finished)	The concrete must be free from any incompatible additives or curing agents. Allow to cure for 28 days. Must be clean and free of all oils, fats or greases. Degrease or scrub with sugar soap if necessary. Remove laitance and loose surface material by whip blast, acid etch or surface grinding in accordance with the Ameron Coatings' Surface Preparation Guide	<p>1st Coat: AMERLOCK 400 (thin 10 - 20% as needed) ①③</p> <p>2nd Coat: AMERLOCK 400 ②</p> <p>Depending on porosity a third coat may be necessary</p>	<p>100</p> <p>125</p>
	Green Concrete	Immediately after pouring and finishing apply Amerlock Sealer. Allow concrete to cure for a minimum of 14 days prior to topcoating. Refer to AMERLOCK SEALER PDS for details.	<p>1st Coat: AMERLOCK SEALER</p> <p>2nd Coat: AMERLOCK 400</p> <p>3rd Coat: AMERLOCK 400</p>	<p>50</p> <p>125</p> <p>125</p>
	Compressed Fibre-Cement Sheeting	Ensure surface is clean, free of dust and loose fibres, and dry. Solvent degrease if necessary.	<p>1st Coat: AMERLOCK 400 (thin 10 - 20% as needed) ①③</p> <p>2nd Coat: AMERLOCK 400 ②</p> <p>Depending on porosity a third coat may be necessary</p>	<p>100</p> <p>125</p>
	Non-Skid System		<p>1st Coat: AMERLOCK 400 (thin 10 - 20% as needed) ①③</p> <p>2nd Coat: AMERLOCK 400 ②</p>	<p>100</p> <p>125</p>
	<p>① The amount of thinner will depend on conditions and equipment used as well as on the porosity of the surface after etching. Usually 20% is sufficient.</p> <p>② On floors subject only to foot traffic, hand drawn trolleys, pallet jacks and liquids involving no acidic chemicals, one can achieve a hard wearing, satisfactorily non-skid surface in two coats by broadcasting over the first coat during application 30/60 dry silica. Where impact is expected or greater wheel abrasion, or stronger chemicals, the grain should be embedded in the second coat and a third coat of AMERLOCK 400 applied. Ease of cleaning is improved by "blinding" the second coat, rather than broadcasting, with 30/60 silica. Increased grip can be achieved with use of coarser silicon aggregates such as 18/40 or 16/30.</p> <p>③ Where the surface is aged or of uneven porosity, AMERLOCK SEALER should be used to seal the surface prior to applying Amerlock 400.</p>			

AMERLOCK 400

<p>General Data</p> <p>Weathering</p> <p>Finish</p> <p>Chemical Resistance</p> <p>Abrasion Resistance</p> <p>Immersion</p> <p>Temperature Range</p> <p>Colour</p> <p>Topcoating</p> <p>Shelf Life</p>	<p>Excellent. Chalks on exterior exposure without detracting from durability. Some colours more durable than others.</p> <p>Semi gloss.</p> <p>Suitable for exposure to splash and spillage of a wide range of chemicals, both acid and alkali. Not all colours equal in chemical resistance. For resistance to spillages and splashes of various chemicals contact PPG Industries Australia.</p> <p>Excellent.</p> <p>Suitable fresh water or sea water..</p> <p>Up to 93°C (dry heat), 38°C (wet heat).</p> <p>White, pastels and most oxide colours (refer Ameron for details).</p> <p>Normally not required, however may be top-coated with most two pack coatings such as AMERSHIELD and AMERLOCK 450K.</p> <p>24 months if stored in sealed containers away from heat or moisture.</p>												
<p>Application Data</p> <p>Theoretical Coverage</p> <p>Volume Solids</p> <p>Drying Time</p> <p>Mix Ratio</p> <p>Pot Life</p> <p>Mixing</p> <p>Thinner</p> <p>Equipment</p> <p>Safety Precautions</p>	<p>8.5 sq.m. per litre at 100 µm d.f.t. Material losses during mixing and application will vary and must be considered when estimating requirements.</p> <p>85% ± 2% (theoretical).</p> <table border="1" data-bbox="451 987 1444 1111"> <thead> <tr> <th></th> <th>10°C</th> <th>20°C</th> <th>30°C</th> </tr> </thead> <tbody> <tr> <td>Touch Dry</td> <td>15 hrs</td> <td>4 hrs</td> <td>2 hrs</td> </tr> <tr> <td>Through Dry</td> <td>24 hrs</td> <td>9 hrs</td> <td>5 hrs</td> </tr> </tbody> </table> <p>Cure for immersion 7 days at 21°C, longer at lower temperatures.</p> <p>Maximum recoat with itself - 3 months. Polyurethanes - 1 week</p> <p>In cool conditions and where fast access (next day light traffic) is required, Amerlock 2K hardener can be substituted. Caution, the use of 2K hardener will reduce the pot life and recoat time. Refer Amerlock 2K data sheet.</p> <p>When maximum recoat time is exceeded abrade and solvent wipe before recoating</p> <p>1 part base to 1 part Hardener.</p> <p>2 hours @ 25°C.</p> <p><i>NOTE: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on site conditions, such as volume of material mixed, ambient and steel temperatures, weather and ventilation.</i></p> <p>Power stir the base and the hardener separately, then add the hardener to the base with stirring. Allow to digest 10 minutes maximum before thinning (if required) and using promptly.</p> <p>Use THINNER 737 or THINNER 4 for thinning (depending on conditions). Use THINNER 304 or THINNER 4 for clean up.</p> <p>Roller. Use solvent-resistant sleeve, medium or long nap. May be applied by spray, both conventional and airless.</p> <p>Follow normal painting precautions. Contents are flammable. Keep away from fire or naked flame. Keep away from children. If swallowed, call a Doctor or Poison Information Centre. When mixing or using, avoid skin contact or breathing of vapours. If splashed on skin, wash with warm soapy water or use olive oil to cleanse skin. During application, provide adequate fresh air ventilation. If applying by spray, wear a positive pressure air-supplied respirator.</p>		10°C	20°C	30°C	Touch Dry	15 hrs	4 hrs	2 hrs	Through Dry	24 hrs	9 hrs	5 hrs
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As Ameron Coatings follow the policy of continuous improvement, this leaflet is issued for general guidance only. It is based on tests and information believed to be accurate at the time of printing. All recommendations and suggestions issued by or on the behalf of the Company are however subject to the Company's conditions of sale.

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