

# DATA SHEET

## EPO100CC CHEMICOAT

100% Solids, VOC Free, Tinted Epoxy



### Description

This industrial floor and wall epoxy coating is an 100% solids, two-pack cycloaliphatic amine cured epoxy resin. This is a superior coating used where a higher resistance to substances and heavy traffic is required. Typical uses include commercial kitchens, tanks, pipes, sewers and bunding. This can be used in conjunction with EPO100HCR Hardener to get the highest chemical and heat resistance. ChemiCoat® EPO100CC is a high gloss and self-levelling epoxy resin, designed as a stand-alone topcoat and as a binder for slip resistant surfaces.

### Recommended Uses

- Tanks and Sewage Systems
- Mechanical Workshops and Warehouses
- Factories and Food Processing Plants
- Laboratories, Chemical and Pharmaceutical Industries
- Power Stations
- Clean Rooms, Exhibition Halls and Showrooms
- Demonstration Areas and Training Rooms
- Washrooms, Cloakrooms
- Wet and Dry Process Areas
- Loading Bays and Ramps
- Hangars

### Features & Benefits

- No VOCs (Volatile Organic Compounds)
- Low Viscosity
- Excellent Abrasion Resistance
- Tenacious Bond to Most Substrates
- High Mechanical Properties and Durability
- High Chemical Resistance
- Solvent Free
- Seamless
- Easy to Apply, Clean and Maintain
- Waterproof
- No Excess Fillers

### Product Information

<b>Pot Life</b>	30-45 minutes at 25°C.
<b>Shelf Life</b>	2 years. Store in a cool, dry area and out of direct sunlight
<b>Mixing Ratio</b>	(2:1) 2 Parts EPO100CCA (Part A):1 Part EPO100CCH (Part B)
<b>Coverage – Standard Coat</b>	4-6m <sup>2</sup> /L depending on the method of application and porosity of the surface.
<b>Coverage – Scratch Coat</b>	1m <sup>2</sup> /L
<b>Coverage – 2-4mm Matrix</b>	0.75m <sup>2</sup> /L
<b>Heat Resistance</b>	Epoxy will not begin to soften until 90°C.
<b>Clean Up</b>	Clean tools with 150 Epoxy Thinners while still wet and discard rollers & brushes
<b>Return to Service</b>	<b>Light Foot Traffic:</b> 24 hours after completion of the job. <b>Vehicle Traffic:</b> 24-48 hours after the completion of the job. <b>Sure Hardness:</b> 72 hours after the completion of the job. <b>Full Chemical Cure:</b> 7 days after the completion of the job.
<b>Recoat Time</b>	12-24 hours depending on the temperature.
<b>Work Time Per Pack</b>	0.5 hours
<b>Tack Free Time</b>	4 hours at 25°C.

### Physical Properties

<b>Solids Content</b>	100 %	<b>Heat Distortion Temperature</b>	ASTM D648: 50°C
<b>Finish</b>	Gloss	<b>Bond Strength to Concrete</b>	100% Concrete failure
<b>Abrasion Resistance</b>	Excellent	<b>Resistance to Chemical Spills (7 days at 25°C):</b>	
<b>Impact Strength</b>	Excellent	Ammonia Solution (20%)	Sodium Hydroxide (30%)
<b>Compressive Strength</b>	ASTM D695: 12,000 psi	Sulphuric Acid (30%)	Kerosene
<b>Tensile Strength</b>	ASTM D638: 3,900 psi	Lactic Acid (5%)	Aviation Fuels
<b>Elongation at Break</b>	ASTM D638: 7.00%	Sodium Chloride (50%)	Petrol
<b>Taber Abrasion Resistance</b>	ASTM D4060: <0.1g loss	Tannic Acid	Hydrochloric Acid (20%)
(mg or loss/1000 cycles) CS-17-wheel, 1 kg load		Acetic Acid (5%)	Toluene
<b>Water Absorption</b>	ASTM D570: 0/07% (2-hour boil)		
<b>Flexural Strength</b>	ASTM D790: 7,800 psi		
<b>Shore D Hardness</b>	ASTM D2240: 89		

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### Surface Preparation

Diamond Grind or Polyvac the substrate. Surfaces must be clean, dry and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa and moisture content below 4%.

Structurally unsound layers and surface contaminants must be mechanically removed by grinding or other methods. Substrates heavily impregnated with oil must be cleaned by grinding or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease free. Cleaning methods are to be repeated if the water is pooling on the surface.

Repair and fill cracks with EPO100EP Epoxy Putty or Concrete Repair Kit.

### Product Application

Mix ChemiCoat® Part A thoroughly prior to combining with ChemiCoat® Epoxy Hardener Part B.

Mix 2 Parts A with 1 Part B (2:1) by volume. Mix with a drill mixer at a slow speed for 2 minutes. Ensure the sides and bottom of the container/bucket are mixed. Tilt the drill to the side to ensure the product on top of the container/bucket is mixing in with the product on the bottom. In normal curing conditions, the EPO100CC® Coating Kit does not require an induction time and coating can begin immediately after mixing. For colder climates, see product cautions for further information on mixing and induction times.

For system specific instructions, consult the All Purpose Coatings **Installation Instruction** documentation, located on the website.

It is recommended that the first coat of ChemiCoat® be applied with up to 10% Epoxy Thinners to ensure high penetration and adhesion to the coating substrate. Subsequent coats can be thinned but, a sufficient curing time will be required to allow the solvent content to evaporate from the product before re-coating or top coating when used as part of an All Purpose Coatings system. The re-coat time is typically, 12-24 hours at 25°C. Apply using a brush or lint free roller.

If recoating after 72 hours a light sand will be required to ensure adhesion of any following coats.

Without exceeding 4mm, apply thicker coats using a squeegee or notched trowel and let the product self-level.

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### Cautions

- When used as a self-levelling floor coating, ChemiCoat® will not profile irregular substrates. For the profiling of defects on horizontal surfaces a suitable patching or repair mortar will be required. The patching or repair mortar can be of either epoxy or cementitious base depending on the scope & particular condition of the project.
- Thoroughly mix Part A and Part B using a powered drill with a paint mixing attachment for 2 minutes. Ensure that all materials on the sides and on the mixer are combined thoroughly to avoid hot spots in the coating that may never cure on application.
- The mix ratio is calculated by product volume. **NOT BY PRODUCT WEIGHT.** Mixing product by weight may result in an unsatisfactory cure time or failure of the mix to cure entirely.
- To achieve optimum results in colder climates, you may need to warm the resin or introduce an induction time before application. This will jump start the curing process. For further information, consult All Purpose Coatings technical advisers.
- Exposure to sunlight and UV radiation can result in discolouration and chalking of the cured surface. While this will have no adverse effect on the protective functions of the coating, the system can be finished with a UV stable and protectant top coat such as 500T Tetrathane®, Sparta60 or Sparta Guard.

*In an emergency, contact the Poisons Information Centre on 13 11 26 or a doctor for advice. **IF THE SITUATION IS LIFE THREATENING, DIAL 000 IMMEDIATELY.***

*DISCLAIMER: Please ensure you read the SDS & TDS thoroughly & carefully before the use or application of any All Purpose Coatings product. These documents contain information in context to how you will apply the product, including if it is being used in conjunction with any other products or systems, and to what surface the product will be applied. All Purpose Coatings Pty Ltd does not accept any liability either directly or indirectly for any losses that arise from the use or application of the product in accordance with any advice, specification & recommendation given by the companies' documentation or representatives at any point in time. Application, performance & safety data may change from time to time. It is the user and/or applicators responsibility to ensure they have the latest copy of any documentation pertaining to their project.*