

Designed and Formulated in Australia by APC

**DESCRIPTION**

EPO100FCC® is formulated with a blend of higher performance resins which imparts a unique combination of desirable properties to the coatings derived from them such as rapid cure, even at low temperatures down to 5°C with a workable pot life and have the ability to resist moisture while curing, making it ideal for cold and damp conditions or on green concrete.

Due to its yellowing nature use only as a Primer or Mortar or Crack Repair.

**RECOMMENDED USES**

- > Binding Systems
- > Coving
- > Mortar
- > Crack Repair
- > Encapsulation
- > Self-Level Systems
- > Maintenance & Marine Coatings
- > Containers & Tanks
- > Pipe & Bridge Coatings
- > Primers for steel & concrete
- > Automotive aftermarket
- > Floorings
- > Electrical Castings

**For use on mineral-based and metal substrate such as:**

- > Mild, Stainless & Aluminium steels when mechanically abraded.
- > Concrete
- > Mortar
- > Stone
- > Epoxy modified mortars

**FEATURES AND BENEFITS**

- > Tile like finish
- > Good chemical resistance
- > Excellent adhesion
- > High build application
- > Food Contact Safe

Bond strength stronger than concrete itself

**PHYSICAL PROPERTIES**

Solid content	100 % w/w
Work time per pack	0.5 hours
Tack free time	4hrs @ 25 degrees C
Finish	Gloss
Abrasion Resistance	Very Good
Rate of Burning:	ASTM D635 Self-extinguishing
Compressive Strength:	ASTM D695 12,000 psi
Tensile Strength:	ASTM D638 3,900 psi
Elongation at Break:	ASTM D638 7.00%
CS-17 wheel, 1 kg load:	ASTM D4060 0.10gm loss



**PHYSICAL PROPERTIES CON' T**

Water Absorption:	D570 0/07% (2-hour boil)
Flexural Strength:	ASTM D790 7,800 psi
Shore D Hardness:	ASTM D2240 89
Heat Distortion Temperature:	ASTM D649 50 Deg.C
Bond Strength to Concrete:	100% Concrete failure

**RESISTANCE TO CHEMICAL SPILLS (7 days at 25deg.C)**

Ammonia Solution (20%)	Sodium Hydroxide (30%)
Sulphuric Acid (30%)	Kerosene
Lactic Acid (5%)	Aviation Fuels
Sodium Chloride (50%)	Petrol
Tannic Acid	Hydrochloric Acid (20%)
Acetic Acid (5%)	Toluene

**SURFACE PREPERATION**

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 with 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. If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.

**MIXING**

Mix 2 parts Resin 'A' with 1-part Hardener 'B' thoroughly using a power drill with a paint mixing attachment for 2 minutes. Ensure that all the material on the sides and on the mixer, is incorporated. Take care to avoid air entrapment in the mix.

Measure sufficient Hardener and Resin to be used in 30 - 40 minutes.

**MIXING**

Quartz sand can be added to produce mortars and self-level compounds. See table below.

SELF LEVELING COMPOUND	1part liquid; 1-part fine quartz = 90 MPa
FLOWABLE MORTAR	1part liquid; 3 parts quartz = 70 MPa
TROWELABLE MORTAR	1part liquid; 4 parts quartz = 55 MPa
STIFF MORTAR	1part liquid; 6 parts quartz = 50 MPa



**APPLICATION**

- > Pulp and paper mills
- > Refineries
- > Food processing plants
- > Sewerage treatment plants
- > Water storage tanks

Apply using a trowel or coving tool. Brush or roller as a Primer.

If recoating after 72 hours a light sand will be required to ensure inter coat adhesion.

**COVERAGE**

Depending on the application use, as a pour on coating 1L per 1m<sup>2</sup> = 1mm in depth

**RETURN TO SERVICE**

Light foot traffic 24 hours after completion of the job. Vehicle 24-48 hours. Sure hardness 72 hours. Full chemical cure 7 Days

**SHELF LIFE**

2 Years, keep in a cool dry area out of direct sunlight

**POT LIFE**

Depending on the temperature 30 – 45 minutes.

**IMPORTANT NOTICE:** Read the SDS and TDS carefully prior to the use of any product. Application, performance & safety data may change from time to time. In emergency, contact the Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice. **IF THE SITUATION IS LIFE THREATENING, DIAL 000.**

**PRODUCT DISCLAIMER:** Read the SDS & TDS carefully before use of any 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, the type of surfaces and the manner in which 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 or information given by All Purpose Coatings Pty Ltd.