

DESCRIPTION

- a two component solvent based epoxy coating designed for concrete flooring applications
- for use in areas such as garages, commercial premises, warehouses and workshop concrete floors.
- may also be used as a maintenance coating to protect metal substrates

PRINCIPAL CHARACTERISTICS

- excellent adhesion to concrete
- excellent recoatability
- resistant to vehicular traffic and hot tyre pick up
- excellent abrasion resistance
- resistant to splash and spillage of general motor vehicle fluids, dilute acids, alkalis, mineral oils and solvents
- suitable for immersion in salt and fresh water

COLOURS AND GLOSS

- white – gloss
- AS2700 colours which are available from white base
- colours obtained by tinting with Ultratint tinters
- **only factory manufactured white is suitable for immersion applications**

RECOMMENDED FILM THICKNESS (PER COAT)

	Minimum	Maximum	Typical
Dry film thickness microns	100	250	150
Wet film thickness microns	120	295	175
Theoretical spreading rate m ² /l	8.5	3.4	5.7

BASIC DATA AT 25 °C

- solids content approx.....85% by volume
- mix ratio1A:1B by volume
- touch dry after4-5 hours
- light foot traffic24 hours
- full cure7 days
- avoid moving objects or driving over the coated surface during the curing period.
- drying and curing times will be longer at lower temperatures and higher humidity.

SURFACE PREPARATION

- all surfaces to be coated must be clean, dry and free from chalking and contamination
- oil and grease should be removed from all surfaces in accordance with AS 1627.1 solvent cleaning
- substrate temperature must be above 10°C during surface preparation, application and curing and at least 3°C above dew point

CONCRETE

- must be structurally sound and free from bond breakers, curing agents, previous vehicular type contaminants or any other contaminants that may interfere with adhesion
- blast clean to remove all laitance
- acid etch to remove all laitance (atmospheric exposure only)
- ensure all new concrete is fully cured prior to coating. Typically this may take a minimum of 4-6 weeks.
- moisture content of concrete should be max. 4%
- relative humidity should not exceed 85%

MILD STEEL

- blast clean in accordance with AS 1627.4 to Sa 2½ minimum (AS 1627.9), surface profile 40-70 microns
- power tool clean in accordance with AS 1627.2 to St 2 minimum (AS 1627.9), (atmospheric exposure only)

GALVANISED STEEL

- lightly blast using an inert grit or power tool clean to achieve a roughened uniform flat appearance (atmospheric exposure only)
- if oxidation occurs between blasting and application, the surface should be reblasted to the specified visual standard
- surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner

PREVIOUS SUITABLE COAT

- must be dry and free from any contamination and sufficiently roughened if necessary
- oil and grease should be removed from all surfaces in accordance with AS 1627.1 solvent cleaning

APPLICATION INSTRUCTIONS

- mixing ratio by volume: 1A:1B
- mix Epinamel CF121 Part A with Epinamel CF121 Part B only
- induction time - none
- pot life at 25 °C – 2½ hours. Do not use after this time even if the mix is still liquid.
- stir the components and mixed product well using a mechanical mixer
- the temperature of the mixed product must be above 15°C, otherwise extra thinner may be required to obtain application viscosity
- too much thinner will result in lower sag resistance and slower cure
- thinner should only be added after mixing the components
- freshly catalysed material should not be added to product that has been mixed for some time
- for recommendations outside those contained in this data sheet, refer to Valspar

APPLICATION METHODS

- **AIRLESS SPRAY**
 - recommended thinnerThinner L760
 - volume of thinner0-5%
 - nozzle orifice approx.0.53-0.58mm (0.021-0.023 inch)
 - nozzle pressure15 MPa (2100psi)
- **AIR SPRAY**
 - recommended thinnerThinner L760
 - volume of thinner0-10%
 - nozzle orifice approx.1.5-2.0mm
 - nozzle pressure0.2-0.4 MPa (30-60 psi)
- **BRUSH/ROLLER**
 - recommended thinnerThinner L760
 - volume of thinner0-10%
 - The maximum dry film thickness that can be achieved when brushing/rolling is 75-100 microns
 - Multiple coats may be required to achieve the recommended dry film thickness
- **CLEANING SOLVENT**.....Thinner L760

SAFETY PRECAUTIONS

- flammable. Avoid contact with heat and naked flame
- avoid contact with skin and eyes
- use gloves, mask and goggles during application
- provide adequate ventilation when using in confined spaces
- this product is intended for use in industrial situations by professional applicators in accordance with the advice given on this sheet. All work involving the use and application of this product should be carried out in compliance with all relevant Health, Safety & Environmental standards and regulations and must not be used without reference to the Safety Data Sheet (SDS)

ADDITIONAL DATA

Overcoating Table

Overcoating interval for EpinameL CF121 when top coating with itself

Interval	5 °C	15 °C	25 °C	35 °C
Min	16 hrs	8 hrs	4 hrs	2 hrs
Max	3 mths	3 mths	2 mths	2 mths

* surface must be dry and free from chalking and contamination prior to overcoating. If overcoating interval is exceeded, the surface must be dry and free from chalking and contamination and sufficiently roughened

Curing and Potlife Table

Paint temperature	5 °C	15 °C	25 °C	35 °C
Dry to handle	24 hrs	12 hrs	6 hrs	3 hrs
Full cure	14 days	7 days	5 days	3 days
Potlife (at application viscosity)	8 hrs	5 hrs	2½ hrs	1¼ hr

* adequate ventilation must be continuously maintained during application and curing

* premature exposure to water may cause colour or gloss change but will not affect the coating performance

PRECAUTIONS

- for recommendations outside those contained in this data sheet, refer to Valspar
- epoxy coatings characteristically chalk or discolour on exterior exposure - this does not detract from their protective performance. For exterior atmospheric coating systems requiring colour retention and resistance to chalking, topcoat with a suitable product. Such products may include Poly U400, Poly U750 or Paracryl IF540. Ensure the system is suitable for your intended application.

PRODUCT COMPATIBILITY

Primers

- EpinameL CP502
- EpinameL PR250

Topcoats

- EpinameL DTS680
- EpinameL DTM985
- Poly U400 (colours)
- Poly U750
- Paracryl IF540 (colours)

STORAGE AND PACKAGING

- shelf life at least 12 months
- all components shall be stored in a dry internal environment at between 5 °C and 35 °C
- packaging 20 Litre kit (10 Litre Part A in 20Litre pail, 10 Litre Part B)

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