

EPIKOTE 100W

TWO-COMPONENT WATER DISPERSABLE EPOXY COATING

DESCRIPTION

EPIKOTE 100W is a two-component water dispersed epoxy resin coating system supplied in pre-weighed packs ready for on-site mixing and use.

USES

Provides a dust-proof surface of which is resistant to most oils and liquids. It is suitable for use as a coloured sealer coat on concrete and mortar substrates. **EPIKOTE 100W** is highly suitable for areas like production areas, warehouses, car park decks, garages, food processing areas, laboratory and other areas subjected to light pedestrian and vehicular traffic.

ADVANTAGES

- ✓ Low VOC contents, environmental friendly
- ✓ Water vapour permeable
- ✓ Low odour
- ✓ Good chemical resistance and bonding strength
- ✓ Provides good hygiene to floor with dust free surface

POT-LIFE AND WAITING TIME

	@20°C	@30°C
➡ Pot Life	2 hours	1 hour
➡ Time Between Coats	12 - 24 hours	6 - 18 hours
➡ Initial Hardness	24 hours	16 hours
➡ Foot Traffic	15 hours	10 hours
➡ Light Traffic	3 days	2 days
➡ Full Cure	7 days	5 days

Note: Times are approximate and will be affected by changing ambient conditions

SURFACE REQUIREMENT AND PREPARATION

Concrete substrate must be sound and of sufficient compressive strength of minimum 25 N/mm² with a minimum pull off strength of 1.5 N/mm². Surface to be coated must free of oil, loose particles laitance and other contaminants in order to achieve maximum adhesion. Any ponding water must be wiped dry before application. Because **EPIKOTE 100W** is relatively thin, the substrate must be fine textured. Any surface irregularities may show through causing excessive wear on high spots and changing the perceived colour of the coating.

Substrates must be prepared mechanically using abrasive blast cleaning or scarifying methods to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products such as CMFIX 100, DURAFLOR C24, CHEMGROUT 215 or other suitable products under the approval of the Manufacturer.

The substrate must be primed or levelled in order to achieve an even surface. All dust, loose and friable material must be completely removed from all surfaces before the application of the product, preferably by brush and vacuum.

TYPE



ADVANTAGES



COVERAGE (PER COAT)

0.25 kg/m²

COATINGS

2 coats (min)

COMPONENT

2
PART

EPIKOTE 100W

TWO-COMPONENT WATER DISPERSABLE EPOXY COATING

TECHNICAL AND MECHANICAL PROPERTIES

⇒ Density	Part A: 1.28 kg/m ³ Part B: 1.09 kg/m ³ Mixed A + B: 1.22 kg/m ³
⇒ Solid Content	~ 55% by weight
⇒ Pull-off Strength (ASTM D4541)	5.41 N/mm ³
⇒ Abrasion Resistance (Taber Abrader Test) (DIN 53 109)	54 mg (CS 10/1000/1000)
Chemical Resistance	Resistant to a wide range of chemicals. Refer to technical department for more information.

COLOUR/APPEARANCE

Part A: Resin (Coloured, liquid) Part B: Hardener (Transparent, liquid)

Available in many RAL code colours. Custom colours are available upon request. For lighter colour shades, it may be necessary to apply several coats of EPIKOTE 100 W to achieve full opacity. There may be discolouration and colour deviation when under direct sun radiation. However, this will have no influence on the function and performance of the epoxy coating. The grade of glossiness of the applied material is influenced by environmental temperature and absorbency of the substrate.

APPLICATION METHOD

Check on the substrate moisture content before application. If moisture content is > 6%, DURAFLOR MB21 may be applied as a temporary moisture barrier system.

EPIKOTE 100W can be diluted with 5-15 % of clean water to be used as the primer coat, applied using a short pile roller. Drying time ranges from 6-24 hours depending on ambient conditions. A continuous, pore free coat that covers the substrate is necessary. This may require up to 2 primer layer coats.

Apply the seal coat of **EPIKOTE 100W** by means of a short pile roller. Immediately release by spike rolling. **EPIKOTE 100W** can also be applied by airless spraying method (spray pressure of ~300 bar, nozzles with diameter of 0.53 mm/0.021 inch and a spray angle of 60°).

Note: Uneven application of the material will result in differences in the coating layer thickness, which may cause difference in 'gloss' and colour of the surface.

LIMITATIONS

EPIKOTE 100W should not be applied on to substrates known to suffer from rising damp or having a relative humidity reading greater than 80%. Refer to CHEMIND INDUSTRIES SDN BHD for further advice.

EPIKOTE 100W should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 85%.

Beware of condensation. Substrate and uncured floor must be at least +3°C above dew point to reduce risk of condensation or blooming on the floor finish.

Being a semi-matt finish, **EPIKOTE 100W** may tend to scuff more than a gloss finish. However, these marks can generally be removed with a detergent scrub.

CONSUMPTION

Priming Coat:

EPIKOTE 100W (5% of water dilution) at ~0.25 kg/m²

Sealer Coat:

2 to 3 coats of **EPIKOTE 100 W** at ~0.25 kg/m² per coat (DFT 100 microns)

PACKAGING

6.9 kg per set (Part A: 5 kg, Part B: 1.9 kg)

Legal Notes:

'Statements made in this bulletin are for the assistance of our customers. They are based on our experience and judgment but must not be regarded as amounting to a legal warranty or as involving any liability on our part. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of this product must test the product's suitability for the intended application and purpose. CHEMIND reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. Users may always refer to the most recent issue of our Product Data Sheet for the products concerned, copies of which will be supplied upon request.'

Made In Malaysia

SCOPE OF REGISTRATION AND STANDARDS

Manufacture of Waterproofing materials. Compliance with ASTM technical standards and AS 3740 - 2004 Australia Standard. SIRIM certification is available for selected products upon request, subject to applicable testing and certification requirements.



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