

Epocote F100W

General Purpose Water Based Epoxy Coating

Description

Epocote F100W is a two-pack, water based epoxy coating that cures to a tough, fully bonded, chemically resistant and waterproof protective barrier.

Grades

- **Epocote F100W** – an economical easy to use general purpose water based epoxy coating and priming system
- **Epocote F100W HD** – is VOC free and an ultra-heavy duty system for commercial and industrial applications.

Uses

Epocote F100W is suitable for commercial and residential construction for new, remedial and maintenance use.

Specific applications include:

- Waterproofing barrier on negative side of retaining walls, lift pits, basements or tunnels.
- Surface sealer to mortar beds and topping screeds under tiles. Prevents efflorescence and calcium leachate staining on surface of tiles and step risers.
- Waterproof sealer against “rising damp” on floors and walls, before installation of floor coverings.
- As a primer on damp or “green” concrete substrates for Grace Bituthene LM or Chemind polyurethane membranes, Chemflex PU sealant and Chemfloor.
- As primer for Chemind water-based and polyurethane membranes when subject to water immersion or to high levels of differential vapour pressure. Use for ponds, tanks, water features and exposed roofing, decks.
- Used as binder for epoxy/cement blend mixes for patching or coating concrete and blockwork.

Epocote F100W HD - an ultra-heavy duty VOC free system.

- Use as a medium service roll-on flooring system, with or without an anti-slip finish on plant or compactor room floors, wash down bays, and wet process areas.
- Use Chemind Chemfloor where high level of abrasion or chemical resistance is required, such as garage, factory and car park floors or food processing areas.

Features

- Complies with **Green Star** requirements
- Very low VOC and zero VOC available
- Fast Cure and Versatile - Multi-Purpose Use
- Simple and economical application
- Easy 1 : 1 by volume mixing ratio
- Resists acids, alkalis and salt water
- Bonds to damp or green concrete

Typical Properties

Property	Epocote F100W	Epocote F100W HD
Mix Ratio (by Volume)	Part A : Part B 1 : 1	Part A : Part B 3 : 1
Solids Content	35 to 52%	>60%
Pot Life	40 min @ 20 °C	1 hr @ 20 °C
Hydrostatic Resistance	280 kPa @ 40 m head pressure	N/A
VOC		0g/litre
Tack Free Time	4 hrs @ 20 °C	8 hrs @ 20 °C
Application RH	<70%	<70%
Application Temperature	10 °C to 35 °C	10 °C to 35 °C
Max Re-coat	36 hrs @ 20 °C	16-20 hrs @ 20 °C

Preparation

- Surfaces must be clean and free from dirt, dust, loose matter, laitance or other contaminants.
- Repair surface defects with Chemind Chembond mortar or Epocote F100W mixed with blended sand:cement (2-3:1) to the required consistency.
- Use diluted hydrochloric or phosphoric acid to give adequate adhesion on smooth, dense concrete. Flush with clean water. Epocote F100W may be applied to damp surface after treatment.

Mixing

- Add required volume of Part B to Part A and mix for 10 minutes, allow to stand 5 minutes then re-mix.
- For Epocote F100W HD, blend with 25% clean water to give desired application viscosity.
- Mix small amounts that can be used in 20 – 30 min.

Application

Apply Epocote F100W or F100W HD by brush or roller.

As Primer – Up to 10% clean water may be added to assist application. If porous concrete produces pin holes, a second coat should be applied.

As Coating – Apply full brush coat to internal and external corners, penetrations and surface cracks. Chemind Fibreglass strip may be used in corners to increase strength. Apply to all vertical surfaces, then to horizontal surfaces in two or three applications. Allow to dry fully between coats.

NOTE

- **NEVER** add Part A to Part B.
- Pot life will be significantly reduced in hot weather. Cold weather, application onto cold surfaces and addition of sand will slow curing time.
- Do not attempt to mix full set quantity as pot life of large amounts may dramatically reduce.
- Take care to discard material that has started to gel.
- Hot or very porous surfaces may be pre-dampened with clean water, prior to application.
- To promote adhesion on dense surfaces or to reduce absorption on porous substrates, dilute the first **mixed** coat with 20 - 50% water.
- Epocote F100 W is not suitable for continuous UV exposure as it will discolour with time.
- Care should be taken when applying Epocote F100W over clay brick walls with damp penetration as moisture trapped inside brickwork can cause serious deterioration of the structure and brick-fretting.
- Chemical and abrasion resistance is achieved after a full 7 days curing.

Surfacing

- For Epocote F100W HD non-slip flooring, hand broadcast clean fine sand into the first body coat.
- Over painting with emulsion paints must be done after 4 hours and within 24 hours of application, otherwise abrasive sanding of surface is needed to provide a suitable key.
- Use adhesives suitable for non-porous surfaces and apply after 24 hours.



Coverage

As a coating – Apply at the rate of 6 to 7m²/litre per coat depending on the porosity and texture of substrate.

As a damp surface Primer – Do **NOT** dilute product. Apply at the rate of 4 - 5m²/litre.

As a general primer - 8 to 12m²/litre of diluted product.

Packaging

Epocote F100W - 4 litre and 20 litre sets

Epocote F100W HD – 8 litre and 18 litre sets

Special colours are subject to colour and quantity.

Clean-up

Generally Chemind Throw-Away disposable brushes and rollers are used. Water will remove uncured product.

Chemind GP Solvent may assist removal of gelled product. Exercise care when using solvents. Please review all MSDS before use.

Shelf Life

Unopened containers of will have a minimum shelf life of two years from date of manufacture, when stored in a dry, cool place.

Handling

General precautions should be taken to avoid skin contact. Use PPE and barrier cream and disposable rubber or polyethylene gloves. If skin contact occurs, wash the affected area thoroughly with soap and warm water.

All operatives should be made fully aware of MSDS information before any application work is commenced.



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