

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.

Uses

Epocote F100W can be applied to most prepared surfaces found in all elements of civil, commercial and residential construction for new, remedial and maintenance use.

Specific applications include:

- Waterproofing barrier on the negative side of retaining walls, lift pits, basements or tunnels to prevent ingress of external moisture.
- Surface sealer to mortar bed and topping screeds before ceramic tiling. Prevents white staining from efflorescence and calcium leachate on surface of tiles and step risers.
- Waterproof sealer against "rising damp" on floors and walls, before installation of floor coverings.
- Used as a primer on damp or "green" concrete substrates for Grace Bituthene LM or Chemind Aquagard M, Proflex TF polyurethane membranes and Chemflex PU sealant as well as Chemind Chemfloor Epoxy Flooring systems.
- Primer for Chemind waterproofing membranes (both water-based and polyurethane) subject to water immersion or to high levels of differential vapour pressure. Use for ponds, tanks, water features and exposed roofing, decks or car parks.
- Protection of floors, walls, pipes, sumps, pits, tanks, troughs, spoon drains and equipment.
- 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.
- Used Chemind Chemfloor where high level of abrasion or chemical resistance is required, such as garage, factory and car park floors or food processing areas.
- Used as binder for epoxy/cement blend mixes for patching or coating concrete and blockwork.

Features

- Complies with **Green Star** requirements
- Non-Hazardous – almost zero VOC (0.3%)
- 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

Colour	Grey, White or Clear
Mix Ratio (by Volume)	Part A : Part B 1 : 1
Solids Content	35 to 52%
Pot Life	40 minutes @ 20 °C
Hydrostatic Head Resistance	280 kPa @ 40 m head pressure

Preparation

- Surfaces must be clean and free from dirt, dust, loose matter, oil, grease, wax, old coatings, curing or release agents, laitance or other contaminants.
- All surface defects shall be made good with Chemind Chembond modified mortar or sand filled Epocote F100W. Concrete should be smooth and brick joints flush.
- Use diluted hydrochloric or phosphoric acid to give adequate adhesion on smooth, dense concrete. Ensure that treated floors are flushed with clean water. Epocote F100W may be applied to damp surface immediately after treatment.
- To patch or seal porous concrete or block, add blended sand : cement (2-3 : 1) to mixed Epocote F100W to give desired consistency.

Mixing

- Thoroughly mix equal volumes of Part A and Part B together, allow to stand for 5 minutes then re-mix.
- Mix small amounts that can be used within 20 – 30 minutes of mixing.

Application

Apply Epocote F100W 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. Use one or two coats of Epocote F100W Grey to suitably seal problem concrete.

As Coating – Apply full brush coat of mixed Epocote F100W to internal and external corners, around penetrations and surface cracks. Chemind Fibreglass strip may be used in corners to increase strength.

Apply by brush or roller to all vertical surfaces, then to all horizontal surfaces in two or three applications.

Allow to dry fully between coats.

NOTE

- Pot life of Epocote F100W will be significantly reduced in hot weather conditions.
- 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.
- Do not attempt to mix full set quantity at pot life of large amounts may dramatically reduce.
- Cold weather, cold surfaces and addition of sand will slow down the curing time.
- Take care to discard material that has started to gel.
- 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 7 days curing.

Surfacing

- For a non-slip surface, 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 depending on 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 is supplied in 4 litre and 20 litre pre-proportioned sets.

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 Epocote F100W 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 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 the Epocote F100W MSDS information before any application work is commenced.



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