SILCOR® Primer EPF

Two component, fast curing epoxy resin primer for use with Silcor liquid waterproof membranes.

Product Description

SILCOR®Primer EPF is a two component epoxy resin primer, formulated specifically to optimise performance of Silcor liquid waterproof membranes.
The system comprises a resin (Part A) component and a hardener (Part B) component supplied in pre weighed containers at a mix ratio by weight of 1.77 Part A to 1.0 Part B.

Principal Applications

Fast curing primer for new and existing substrates prior to the application of Silcor elastomeric waterproof membranes.

- Concrete roof decks
- Cementitious roof decks

Installation

1. Surface preparation

Minimum cohesive strength of concrete is 0.8 MPa for limited access roofs and 1.5 MPa for vehicular trafficked decks. Where these values are not achieved by pull-off adhesion testing, remove all laitance by shot blasting. Surfaces must be clean, sound, free of dust, laitance, sealers, grease or any other contaminants that might reduce adhesion.
In case of using high pressure water jet, allow sufficient time for the residual humidity to dissipate.

The substrate humidity before application of the primer must be less than 5%. The primer surface humidity before application of Silcor liquid membrane must be less than 5%.

2. Mixing

Add the complete quantity of the B-component to the A-component. Do not use part mixes.
Mix with a slow speed paddle mixer (less than 300 rpm) for 3 minutes in order to obtain an homogenous mixture.

3. Application

Application temperature range 5°C to 25°C. Higher temperatures reduce the pot-life considerably.
Apply Silcor Primer EPF to the surface by brush, roller, spatula or airless spray ensuring coverage of the entire surface. Silcor Primer EPF epoxy primer for concrete, cementitious masonry and wood substrates should be applied at a typical consumption rate of 0.35 Kg/m2. Coverage rates will vary depending on surface irregularity. The primer should be applied to give full substrate coverage but should be applied as thinly as possible to prevent ponding.
When the primer has cured and all unbonded sand has been removed, check for any pinholes, blisters and similar. Apply a second coat of primer to all effected areas. If an extended primer re-coat time is preferred, (max 7 days) immediately following application of the primer and while still wet, scatter dry, washed quartz silica sand diameter 0.4 mm – 0.8 mm on the primer and cover fully. Leave the primer to dry completely (typically 2.5 hours at 20°C) then remove all loose sand by use of a compressed air lance, thorough brushing/scrubbing, and vacuum cleaning.Where an extended primer re-coat time is not required, application of quartz silica sand is not necessary. Leave the primer to dry and apply Silcor membrane within 18 hours maximum. **If application of Silcor membrane to un-sanded primer is delayed beyond this time, re-prime with a second coat of Silcor Primer EPF.**

Silcor Primer EPF can also be filled with dry, washed quartz silica sand to make a scratch coat for repairing and levelling small surface defects before the application of the membrane.

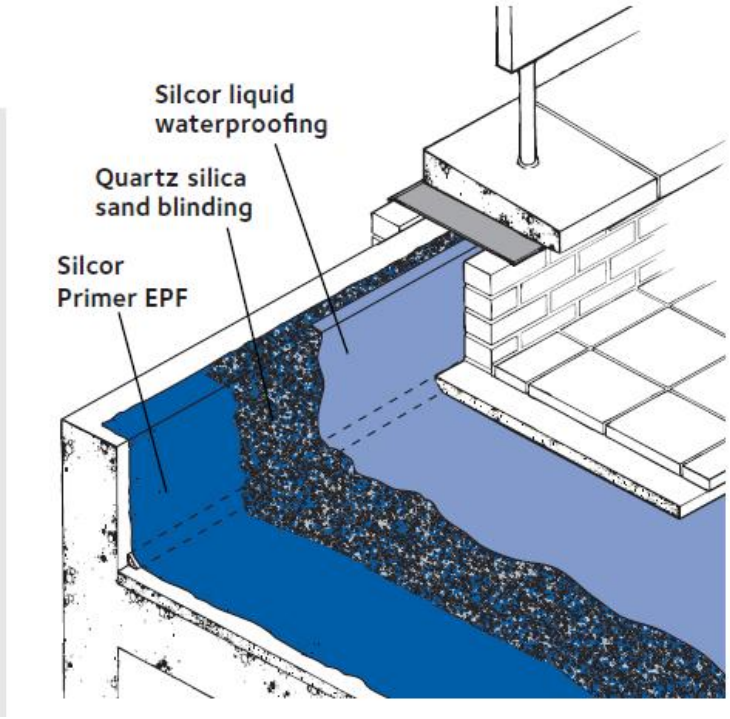
Liquid Properties

PROPERTY	TYPICAL VALUE
Adhesion to concrete	concrete cohesive strength
Density	1.09 kg/l
Viscosity (mixed A + B) 20°C	600 mPas
Pot Life 20°C	20 mins
Hand dry 20°C	2.5 hours
Full cure	7 days

All declared values shown in this data sheet are based on test results determined under laboratory conditions and with the product sample taken directly from stock in its original packing without any alteration or modification of its component parts.

Product Advantages

- **Fast curing**, short recoat times.
- **Adhesion** exceeds concrete cohesive strength
- **Easy to apply** by roller, brush or airless spray
- **Solvent free.**
- **BBA Certificate.**
- **European Technical Approval.**



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP or visit gcpat.com.

4. Curing

Allow the primer to cure for 2.5 hours or until hand dry before removing the surplus quartz sand or application of the Silcor membrane.

Supply

	UNIT OF SALE
Silcor Primer EPF Part A	3.2 kg metal can
Silcor Primer EPF Part B	1.8 kg metal can

Storage

All products should be stored internally, in original packaging at temperatures between 5 °C and 25 °C.
Protect products from all sources of heat, moisture, frost and direct sunlight.
Shelf life 12 months maximum.

Warranties

GCP and trained contractors can provide warranties for individual projects. Contact GCP for further details.

NBS Specification Clause

Refer to Clause J30/130 and J31/130.

Health and Safety

Read the product label and Safety Data Sheet (SDS) before use. Users must comply with all risk and safety phrases. SDSs can be obtained from gcpat.com.

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gcpat.com.au/solutions/products/silcor-liquid-waterproofing/silcor-primer-epf-0