

SILCOR[®] Primer EPF (US Version)

Two component, fast curing epoxy resin primer for use with SILCOR[®] liquid waterproofing membranes

Product Description

SILCOR[®]Primer EPF is a two-component fast curing, short recoat time epoxy primer for concrete substrates specifically designed for SILCOR[®]liquid waterproofing membranes.

Product Advantages

- Fast curing with short recoat time
- Excellent adhesion exceeds concrete cohesive strength
- Easy to apply by roller or brush
- Easy to use multi-purpose primer

Installation

1. Surface Preparation

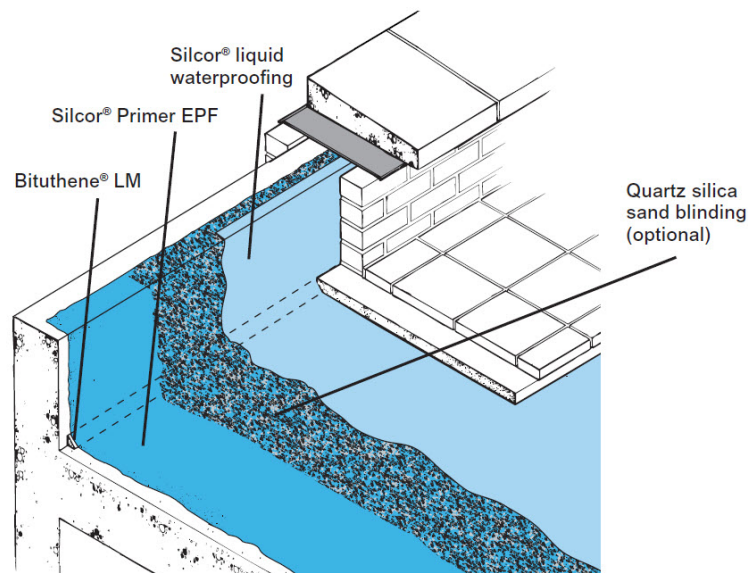
- Minimum cohesive strength of concrete is 115 psi for limited access roofs and 215 psi for vehicular trafficked decks. Where these values are not achieved by pull-off adhesion testing, remove all laitance by shot blasting.
- Surfaces must be clean, sound, free of dust, laitance, sealers, grease or any other contaminants that might reduce adhesion.
- If power washing the substrate, allow sufficient time for the residual humidity to dissipate. The substrate moisture content before application of the primer must be less than 5%. The primer surface before application of SILCOR[®] liquid membrane must be clean and dry.
- For further details concerning surface preparation guidelines and primer choice, refer to the SILCOR[®] Application Manual.

2. Mixing

- Store SILCOR[®] Primer EPF in a dry and cool place out of direct sunlight.
- Add the complete quantity of the B-component to the A-component to assure correct mixing ratio.
- Mix with a slow turning mixer (less than 300 rpm) for 3 minutes in order to obtain a homogeneous mixture.

3. Application

- The application temperature range is 40 °F to 80 °F. Higher temperatures reduce the pot-life considerably.
- Apply SILCOR® Primer EPF to the surface by brush or roller immediately after mixing ensuring coverage of the entire surface.
- Pour the primer onto the surface in a zigzag trail.
- After pouring onto the surface, distribute the primer evenly with foam rubber squeegees and roll using Perlon rollers.
- The primer should be evenly distributed at 10 mils thickness with complete coverage of the surface.
- If the surface is very porous and absorbs primer to the extent that open surface remains additional primer must be added in this area within the pot life or recoat time of the primer.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP Technical Services.

4. Curing

- The SILCOR® membrane should be applied within 24 hours. This window is influenced by ambient temperature and humidity. When this time is exceeded before the membrane is applied, re-apply a new layer of SILCOR® Primer EPF.
- The SILCOR® membrane application window using SILCOR® Primer EPF can be extended by broadcasting dry quartz silica sand into the primed surface. Broadcast sand to full saturation. Use sand of 16/30 mesh for coating thickness of up to 80 mils. For larger coating thicknesses larger grain sizes can be used. Remove surplus sand and partially bonded particles with a scrubber after the primer is dry to the touch.
- SILCOR® Primer EPF can be filled with dry, washed quartz silica sand (20/40 mesh) to make a scratch coat for repairing and leveling small surface defects before the application of the membrane.

5. Cleaning

- Mixing and application equipment should be cleaned immediately with mineral spirits. Remove hardened material mechanically. All solvents should be used only in accordance with manufacturer's recommendations. Do not use solvents to clean hands or skin.

Supply

	APPROX. UNIT OF SIZE
SILCOR® Primer EPF Part A	0.7 gal
SILCOR® Primer EPF Part B	0.5 gal

Liquid Properties

PROPERTY	TYPICAL VALUE
Adhesion to concrete	concrete cohesive strength
Density	9.1 lbs/gal
Viscosity (mixed A+B) 68 °F	600 centipoise
Pot Life 68 °F	20 min
Touch dry 68 °F	2 hours
Full cure	7 days
Recoat window 68 °F	2-24 hours
Min. substrate application temperature	40 °F

Coverage

Approximately 125 ft²/gal (150 sqf/kit), actual will vary depending on the absorption and profile of the surface.

Storage

SILCOR®Primer EPF should be stored under cover, protected from moisture in original sealed containers above 40 °F (5 °C) and below 80 °F (25 °C) or crystallization may occur. Shelf life is 2 years in unopened containers stored under the conditions described above.

Health and Safety

Read the product label and Safety Data Sheets (SDS) (SDS A) (SDS B) before use. SDSs can be obtained from GCP Applied Technologies.

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