

SILCOR[®] Primer EPS

Two component, epoxy primer for dry to moist substrates with extended pot life for hot weather applications.

Product Description

SILCOR[®]Primer EPS is a two component epoxy primer specifically formulated for application in hot weather conditions such as tropical countries or in summer.

Silcor Primer EPS cures in conditions of high relative humidity and the pot life and the reaction at 35°C is similar to the pot life and the recoat time of a standard epoxy primer at 20°C. All components are pre-weighted in an easy to mix system:

- A-component : epoxy resin.
- B-component : polyamine hardener

Principal Applications

- Epoxy primer suitable for dry to moist substrates with extended pot life for hot weather applications prior to the application of elastomeric coatings and epoxy systems.
- Slow epoxy primer for dry to moist substrates prior to the application of elastomeric coatings and epoxy systems in normal conditions.

Installation

1. Surface Preparation

- The concrete surface can be moist with a maximum moisture content of 10% before application of the primer. Prior to the application of the SILCOR[®] waterproofing membrane, the surface moisture content of the primer must be no more than 5%.
- The surface needs to be clean and sound.
- The surface must be free of dust, laitance, sealers, grease or any other contaminants that might influence bonding of the resin. Sand blasting is recommended. Clean dust by hovering. In case of using high pressure water jet, allow sufficient time for the residual humidity to dissipate.

2. Mixing

- Store Silcor Primer EPS in a dry and cool spot out of direct sunlight. Storing the product in direct sunlight will heat up the components and reduce pot life considerably.
- Add the complete 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 homogenous mixture.
- Mixing temperatures should preferably be between 10°C and 40°C. Higher temperatures reduce the pot life considerably.

3. Application

- Application temperatures must be between 10 °C and 40 °C.
- The primer needs to be applied to the surface immediately after a set is mixed.
- Pour the primer onto the surface in a zigzag trail.
- After pouring onto the surface, the primer is evenly distributed onto the surface with foam rubber squeegees and rolled into the surface, within the pot life, using Perlon rollers.
- The primer needs to be evenly distributed with complete coverage of the surface.
- If the surface is very porous and absorbs primer leaving an open surface (matt aspect), additional primer needs to be added in this area within the pot life or recoat time of the primer.
- Primers are always applied in 2 layers in criss-cross fashion.
- In case of spray application, the first layer is always rolled into the surface to obtain good pore coverage and adhesion.
- Design consumption: 350 g/m² but can be influenced by the surface roughness.

4. Curing

The recoat window of the primer is influenced by ambient temperature and humidity.

Recoat window

- Application of Silcor elastomeric membranes: 12 to 24 hours.
- When the recoat window time is exceeded before the first coat of the membrane is applied, grind slightly the primer and re-apply a new layer of Silcor Primer EPS.
- The recoat window of Silcor Primer EPS can be extended by broadcasting dry quartz sand into the primed surface. Broadcast sand to full saturation. Use sand of 0.4–0.8 mm grain size for coating thicknesses up to 2 mm. For larger coating thicknesses larger grain sizes can be used. Remove the surplus of sand after the primer is hand dry with a scrubber to remove all loose and partially bonded particles.

5. Cleaning and Maintenance

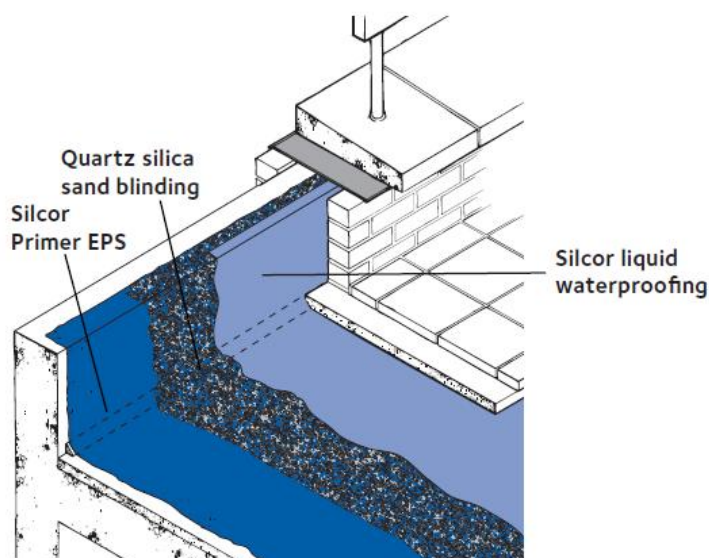
- Mixing and application equipment should be cleaned immediately with solvent MEK. Remove hardened material mechanically.

Advantages

- Adjusted pot life and curing for hot and tropical weather applications.
- Excellent adhesion: exceeds concrete coherence.
- Can be applied to moist substrates with a maximum moisture content up to 10%.
- Easy to use multi-purpose primer.
- Easy to apply by roller or brush.

Supply

	UNIT OF SALE
Silcor Primer EPS Part A	5.5 kg
Silcor Primer EPF Part B	4.5 kg



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

Typical Properties

PROPERTY	TYPICAL VALUE
Adhesion to concrete	surpasses concrete coherence
Density	1.05 kg/dm ³
Viscosity (mixture)	Approx. 1000 mPas
at 20 °C	Approx. 550 mPas
at 35 °C	
Pot Life (250 g)	Approx. 120 min
at 20 °C	Approx. 40 min
at 35 °C	
Touch dry time	Approx. 7 hours
at 20 °C	Approx. 3 hours
at 35 °C	

Recoat window	12 to 24 hours
at 20 °C	12 to 24 hours
at 35 °C	
Full cure	7 days
Minimum application temperature	10 °C

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.

Consumption

Has to be estimated by the engineer or operator and depends on the surface texture.
Design consumption: 350 g/m², depending on the absorption and roughness of the surface.

Storage

Silcor Primer EPS should be stored under cover protected from direct sunlight. Protect from moisture and frost. Rotate the product in order not to exceed its shelf life. Shelf life: 2 years.

Warranties

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

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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