

# Silcor® Primer EP LT

Three component, epoxy resin primer for use with Silcor liquid waterproof membranes at low temperatures.

## Description

Silcor® Primer EP LT is a three component epoxy resin primer, formulated specifically to optimise performance and application time of Silcor liquid waterproof membranes. The system comprises a resin (Part A) component and 2 hardeners (part B and part C) components supplied in pre-weighed containers.

## Principal Applications

Ultra 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%.**

## Advantages

**Ultra Fast curing**, very short recoat times.

**Time saving**: long last priming and membrane application the same day also at low temperature.

**Rain resistance**: quick rain resistance development, limited risk of re-priming.

**Adhesion** exceeds concrete cohesive strength.

**Easy to apply** by roller or squeegee

**Solvent free.**

### 2. Mixing

Open the part A pail and premix it with a slow speed mixer. Add part B to part A. Then add part C into the same bucket. Do not use part mixes. Mix with a slow speed paddle mixer (less than 300 rpm) for 1 minute in order to obtain an homogenous mixture.

### 3. Application

Application temperature range 0°C to 20°C. Do not use above +20°C. Apply Silcor Primer EP LT to the surface by squeegee, roller, spatula ensuring coverage of the entire surface.

Silcor Primer EP LT epoxy primer for concrete, cementitious masonry substrates should be applied at a typical consumption rate of 0.35 Kg/m<sup>2</sup>. 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.

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 hours at 10°C) then remove all loose sand by thorough brushing/scrubbing and vacuum cleaning.

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 affected areas.

### 4. Curing

Allow the primer to cure for 2 hours at +10°C.

Silcor Primer EP LT has cured sufficiently to allow application of the Silcor membrane, when touching the primer for 1-2 seconds wearing a disposable glove, irrespective of whether the surface is still tacky, there is no residue visible on the glove.

## Supply

	Unit of Sale
<b>Silcor Primer EP LT Part A</b>	3.16 kg metal can
<b>Silcor Primer EP LT Part B</b>	0.72 kg metal can
<b>Silcor Primer EP LT Part C</b>	1.12 kg metal can

## Liquid Properties

Property		Typical Value
Adhesion to concrete		>1.5 MPa failure mode cohesive in concrete
Viscosity at +10°C	Part A	320 mPas
	Part B	2160 mPas
	Part C	445 mPas
Density at +20°C	Part A	1.135 g/cm <sup>3</sup>
	Part B	1.110 g/cm <sup>3</sup>
	Part C	1.280 g/cm <sup>3</sup>
Pot Life 10°C		8 mins
Hand dry 10°C		2 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.

## Storage

All products should be stored internally, in original packaging at temperatures between 5°C and 20°C. Protect products from all sources of heat, moisture, frost and direct sunlight.

Shelf life 12 months maximum.

## NBS Specification Clause

Refer to Clause J30/130 and J31/130.

## Warranties

GCP Construction Products 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 GCP Applied Technologies.

**WARNING:** After mixing, the product can generate heat and fumes. A risk assessment should be conducted prior to using the product. Ensure personal protective equipment is suitable and the work area is well ventilated.

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