

SILCOR[®] Primer PU 30

Single component, solvent free polyurethane primer for use with SILCOR[®] liquid waterproof membranes applied to bitumen sheets.

Product Description

SILCOR[®]Primer PU 30 is a single component polyurethane primer, formulated specifically to optimise performance of Silcor liquid waterproof membranes applied to bitumen sheets.

Principal Applications

Primer for existing bitumen sheet roofs, prior to the application of Silcor elastomeric waterproof membranes.

System Components

1. Surface preparation

Only use Silcor Primer PU 30 on bitumen substrates. For concrete substrates, use Silcor Primer EPF.

All surfaces must be dry, clean, sound, free of dust, grease and any other contaminants that might affect adhesion.

Bitumen felts should be checked carefully. If the surface defects (cracks, blisters, poorly bonded laps, etc.) are less than 15% of the total surface area then it is feasible to apply Silcor Primer PU 30. All blisters in the bitumen sheets should be star cut and the substrate beneath dried fully with a vac and hot air gun. All cut edges and debonded laps should be re-bonded with Adcor[®]Adhesive MS. Remove all un-bonded mineral stones.

Where bitumen sheet roofs have surface defects in excess of 15% of the total surface area, it is not feasible to apply Silcor Primer PU 30. Remove all bitumen sheets and residues from the substrate to expose the structural deck. Use Silcor Primer EPF on all concrete substrates where bitumen sheets have been removed.

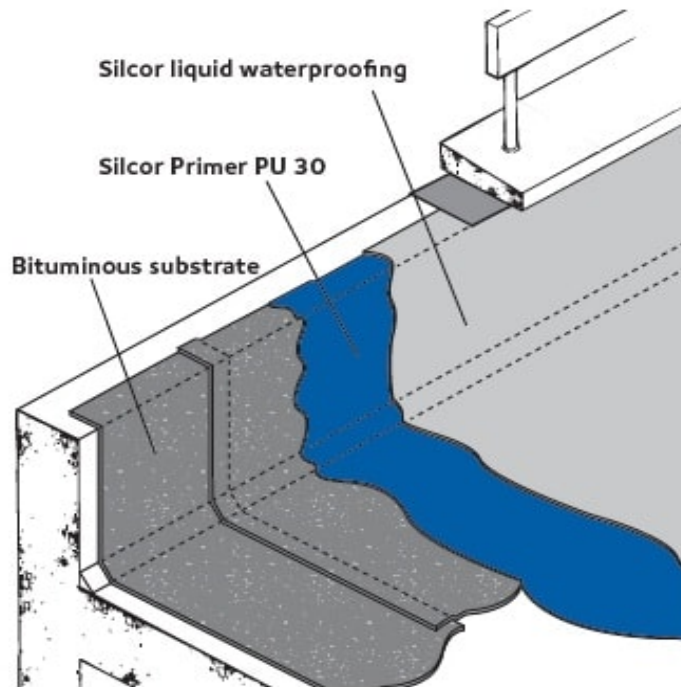
The substrate humidity before application of the primer must be less than 5%. The primer surface humidity before application of Silcor liquid membrane must be less than 5%.

2. Mixing

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 30°C. Apply Silcor Primer PU 30 to the surface by brush or roller, ensuring coverage of the entire surface. Silcor Primer PU 30 should be applied at a typical consumption rate of 0.2-0.3 kg/m².



Product Advantages

- Solvent free - does not soften bitumen.
- Elastic - complements Silcor liquid waterproof membranes.
- Low viscosity - easy application.
- Heat and frost resistant.

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. Do not allow primer to pond, to avoid risk of bubbling.

Apply Silcor liquid waterproofing within 24-48 hours of primer application. Do not scatter sand on Silcor Primer PU 30. If application of Silcor liquid waterproofing to the primer is delayed beyond this time, re-prime with a second coat of Silcor Primer PU 30.

4. Curing

Allow the primer to cure typically for 24-48 hours.

SUPPLY

	Unit of Sale
Silcor Primer PU 30	10 kg metal can
	20 kg metal can
Ancillary Products	310 ml cartridge
Adcor Adhesive MS	

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

TECHNICAL PROPERTIES

Property	Typical Value
T-peel adhesion to bituminous felt, with mineral surface	> 1.0 N/mm (>90% felt cohesive failure)
Elongation	> 350%
Solids Content	100%
Overcoat time	24-48 hrs
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 25 °C. Protect products from all sources of direct sunlight, moisture, frost and direct sunlight.

Shelf life 9 months maximum.

Warranties

GCP Applied Technologies and trained applicators 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 GCP Applied Technologies.

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