

SILCOR[®] 560 LVOC

Low VOC, fast-cure, polyurethane waterproofing membrane

Product Description

A unique, low VOC, high performance, low odour, one-part, fast-curing, high solids, polyurethane elastomer, liquid waterproof membrane. It is specially formulated for easy roller application of all permanently flexible, tough, high-build, long-life waterproof barriers.

Features

- Low VOC
- Easy, fast, one-coat application with brush or roller is possible
- Simple, seamless, fast-cure membrane
- Excellent resistance to acid sulphate soils
- Waterproof – resists ponded water
- Permanently flexible – total adhesion
- Single-pack – no mixing, high build
- Systems for Total Project Specification

SILCOR[®] 560 LVOC is a pure polyurethane elastomer. No bitumen or tar content and will not bleed or stain. Engineered to allow high build application without multi-layering and/or reinforcing mat. Design a Total Waterproofing Envelope package with waterproofing systems from GCP Applied Technologies.

Uses

SILCOR 560 LVOC is used for:

- Wet areas – bathrooms, shower trays, laundries, toilets, spas.
- External (non-exposed) – balconies, roof-decks, sill or window flashings, podiums, planters
- Tanking - retaining walls, landscaped areas, ponds, water features.
- It can be applied to most stable surfaces – block, brick, concrete, render, timber, CFC, GRC, ALC, etc.

Preparation

Surfaces must be sound, smooth and free from dust, laitance, loose matter, oil or other contaminants. Concrete should be cured 28 days and render 7 days.

Use SILCOR LM PU sealant to fill joints, cracks, gaps and form angle fillets to internal corners or penetrations.

Typical Properties

PROPERTY	TYPICAL VALUE	TEST METHOD
Colour	Grey	-
Specific Gravity	1.45g / mL	-
Solid % Vol	91 ± 3	-
Cure Time - Ready for Flood Test, Tiling, Topping	48 hours	-
Tensile Strength	> 2.0MPa	ASTM D412
Elongation	> 550%	ASTM D412
Shore a Hardness	60 ± 5	ASTM D2240
Chemical Resistance	Excellent	ASTM C543

Surfacing

Allow product to cure overnight before foot traffic. Protect installed membrane from damage. If surface retains any tacky feel, access is achieved by a light broadcast of fine sand. Remove loose materials before over-coating.

The following surfacing systems may be used after the SILCOR 560 LVOC membrane has fully cured.

- Exposed Areas

Use SILCOR Top Coat 80 (non-slip or sheen finish) to provide UV colour stable protective finish.

- Tiles

Lay ceramic tiles on mortar bed or apply sand-layer before application of suitable adhesive.

- Other Rigid Surfaces

Use 0.2mm thick polyethylene plastic slip-sheet under concrete toppings. Lay paving slabs supported on mortar bed.

- Tanking

Cover with BITUTHENE® Protection Board or HYDRODUCT® Drainage Board, followed by backfill or landscaping.

- Decorative Finishes

Use SILCOR Primer BW N105-DT seal surface, then apply any exterior quality acrylic paint.



Bond Breaker

Install SILCOR LM PU sealant as bond breaker.
 Allow all detailing work to skin cure before proceeding with general membrane installation.

Application

Primer

To inhibit pin-holes and seal dusty, porous surfaces use one coat of SILCOR Primer BS at 8 to 10m² / kg and allow to dry.

Use SILCOR Primer BW N105-DT to seal any damp or green concrete. Roughen PVC or stainless steel before priming with SILCOR Primer BW N105-DT.

Theoretic Coverage

12m² / pail in 1mm thickness (DFT)

Area	Thickness (DFT) recommendation*	Coverage @ 25°C, 60% RH
External	1.2 - 1.5mm	2.1 - 2.6kg / m ²
Internal-floors	1.2 - 1.5mm	2.1 - 2.6kg / m ²

Internal-walls

0.3 - 0.5mm

0.5 - 0.9kg / m²

* Thickness should be determined by specifier

Packaging

SILCOR 560 LVOC: 22kg pails

Clean Up

Use methylated spirits before curing. Exercise care when using any solvent. Review Safety Data Sheet (SDS) before use.

Shelf Life

Do not store product exposed to weather and sun. When kept in a cool, dry, protected area, sealed pails have a nine-month shelf life at 25°C, 60% RH, but once opened, may solidify within a few days.

Health and Safety

In case of spills and accidents, refer to the SDS of the products or when in doubt contact your local GCP representative.

Always wear protective clothing, gloves and protective goggles when handling chemical products.

For full information, consult the relevant SDS.

Project Specification

GCP Applied Technologies offers a comprehensive package of quality and proven systems to meet different project and application needs. Contact your local GCP representative for further information.

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