

SILCOR[®] 575

One-part, foot-trafficable, polyurethane waterproofing membrane

Product Description

One-part, high performance, polyurethane membrane. When combined with SILCOR[®] Top Coat 80, provides a durable, UV-resistant, foot-trafficable waterproofing system for roofs, decks and plant rooms.

Features

- Easy and low cost to install, maintain or refurbish
- Quick access for trades
- Waterproof — resists ponded water
- Resistant to UV exposure and many alkalis, acids, oils and fuel
- Single-pack — no mixing
- UV colour-stable, non-slip and foot-trafficable with Silcor Top Coat 80
- Low odour and non-stain
- Forms a one-piece membrane barrier
- Will not become brittle with age

Silcor 575 System provides a truly durable elastomeric membrane fully laminated to the substrate. It is engineered to allow application by “flood coating” using a squeegee, without multi-layering.

Silcor 575 System may be left exposed, painted, over coated or tiled as required. See surfacing data following.

Uses

Silcor 575 System is specifically designed for use as a non-slip, fully-exposed membrane on foot-trafficable areas, including:

- Plant room floors
- Balconies
- Roof-decks
- Sill or window flashings
- Podiums - Bunds
- Exposed pathway areas

The system can be applied to most surfaces.

Application

Priming

To inhibit pin-holes and seal dusty, porous surfaces use one coat of Silcor Primer BS at 0.15 – 0.3 kg/m² and allow to dry. Use Silcor Primer BW N105-DT to seal damp concrete. Roughen PVC or stainless steel before priming with Silcor Primer BW N105-DT. Recommended moisture content <5% based on ASTM F2659.

Application to highly porous substrates while substrate temperature is increasing may result in concrete outgassing and pinhole formation in primer. This can be reduced or prevented by priming substrates in the late afternoon or evening, when concrete temperature is stable or falling.

Application of Continuous Membrane

Silcor 575 Membrane is best applied in one application by squeegee. It can also be used by brush, roller or airless spray. Allow to dry fully between coats. Apply to a minimum total WFT (Wet Film Thickness) of 1.75mm to achieve the required minimum DFT of 1.5mm. Apply in one or two coats. Test WFT during application using a Wet Film Thickness Gauge.

Tanking

Cover with Bituthene[®]rotection Board or Hydroduct[®] Drainage Board, followed by backfill or landscaping.

Typical Properties

PROPERTY	TYPICAL VALUE	TEST METHOD
Colour	Grey	-
Specific Gravity	1.4 g/ml	-
Solids % Vol	91 ± 3	-
Cure Time - Ready for Flood Test, Tiling, Topping	48 hours	-
Mix Ratio (w/w)	1:1	-
Tensile Strength	> 2.5MPa	ASTM D412
Elongation	> 500%	ASTM D412
Shore A Hardness	75 ± 5	ASTM D2240
Chemical Resistance	Excellent	ASTM D543

Topcoat

Mix Silcor Top Coat 80 and apply in one or two coats by brush, roller or airless spray of a total rate of 0.3 kg/m² to give uniform finish with DFT 0.15mm. Grey and a limited colour range are available.

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.



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.

Repair surface defects with modified mortar.

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

Bond Breaker

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

Surfacing

Silcor 575 membrane may be subjected to foot-traffic after 12 hours. Following surfacing systems may be used over the fullycured Silcor 575 membrane layer without top coat:

Tiles

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

Decorative Finishes

Use Silcor Primer BW N105-DT as sealer for premium quality exterior acrylic paints or texture coatings.

Other Rigid Surfaces

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

Coverage

Silcor 575 Membrane: 2.4 kg/m² for 1.5mm DFT.

Packaging

Silcor 575 Membrane: 22kg pails.

Clean Up

Use methylated spirits before curing. Exercise care with solvents and review Safety Data Sheet (SDS).

Shelf Life

Do not store product exposed to weather and sun. When kept in a cool, dry, protected area, sealed pails have a 9 month shelf life at 25°C, 60% RH, but once opened, may solidify within a few days.

Health and Safety

Read and understand the product label and Safety Data Sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office and in some cases from our web site at gcpat.com.

gcpat.com | For technical information: asia.enq@gcpat.com

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GCP Applied Technologies Inc., 2325 Lakeview Parkway, Alpharetta, GA 30009, USA

GCP Applied Technologies Holdings (Thailand) Limited., 848 Moo 2, Bangpoo Industrial Estate (North), Phraksa Mai, Muang Samutprakarn, Samutprakarn 10280, Thailand

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