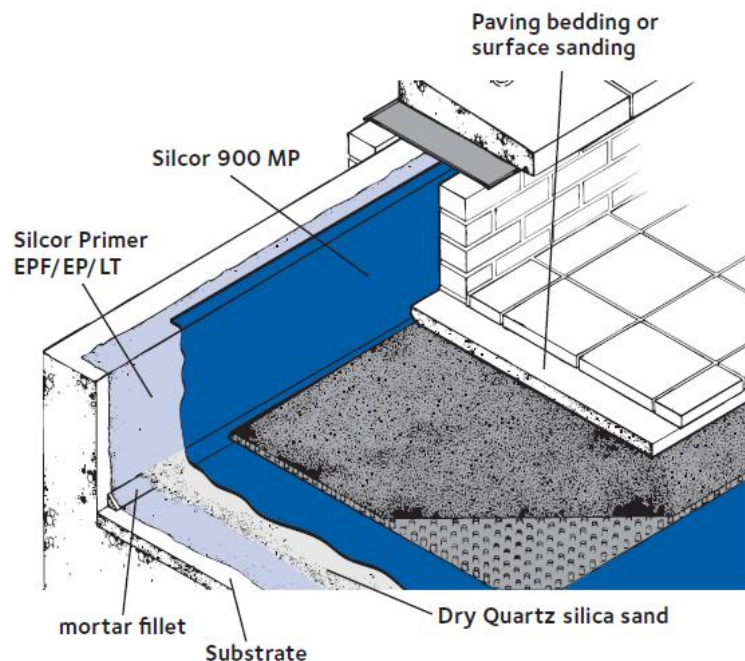


# SILCOR<sup>®</sup> 900MP

Rapid-set, spray-applied, liquid waterproofing membrane for roofs, podium decks, terraces etc.

## Product Description

SILCOR<sup>®</sup> 900MP is a premium performance two-component spray-applied seamless waterproofing membrane that rapidly cures to form a high-strength, elastomeric, and fully-bonded waterproof membrane. Unlike conventional liquid membranes, SILCOR<sup>®</sup> 900MP is extremely durable with excellent wear and chemical resistance and does not normally require additional protection against mechanical damage.



Details shown are typical illustrations only and not working drawings. For assistance with working drawings and additional technical advice please contact GCP or visit us online at [gcpat.com](http://gcpat.com)

## Product Advantages

- Seamless – continuous waterproofing integrity.
- Rapid-set – will accept foot traffic after 5 mins.
- Robust – no protection needed
- Productivity – spray-applied for maximum coverage per day.
- Fully bonded – eliminates water migration to prevent water tracking.
- Elastomeric – accommodates movements and bridges concrete shrinkage cracks.
- Durable – tough with excellent wear and damage resistance.

- Chemical Resistance – excellent fuel and chemical resistance.
- BBA Certificate
- European Technical Approval

## Principal Applications

New and remedial waterproofing for:

- Roofs
- Podium decks
- Terraces
- Walkways and foot bridges
- Balconies
- Green/ Planted roofs

## System Components

- SILCOR® 900MP – premium performance two component, spray-applied seamless waterproofing membrane.
- SILCOR® Primer EPF – two-component epoxy primer for concrete substrates.
- Dry Quartz Silica Sand – fine dry silica quartz sand for use with primers. Contact GCP for specification.
- HYDRODUCT® 200/ 650 (optional) – geocomposite drainage/ irrigation sheet.
- HYDRODUCT® Root Barrier (optional)

## Design

SILCOR® 900MP spray-applied roof waterproofing system is satisfactory for use as a fully adhered waterproofing layer on new and existing flat (including those with zero pitch) and sloping protected roof specifications e.g. inverted roofs, terraces, podium decks and covered walkways for pedestrian access.

## Compatibility/Adhesion

Concrete and steel surfaces must be suitably prepared to accept primers and membranes to ensure adequate adhesion. Mechanical preparation recommended. For further details concerning surface preparation guidelines and primer choice, contact GCP.

## Installation

SILCOR® 900MP liquid waterproofing is applied only by experienced, trained contractors. Contact GCP for further details.

- SILCOR® 900MP should only be applied to correctly prepared and primed surfaces in dry conditions. Surfaces should be clean, dry, and free of contaminants and loose particles. Consult GCP for surface preparation guidance and the requirement for mechanical preparation of specific substrates.
- Ambient application temperature must be between 5 °C and +40 °C. Substrate temperature should exceed the dew point temperature by a minimum of 3 °C.
- Relative humidity should be less than 90%.

## Physical properties

	TYPICAL VALUE	TEST METHOD
Tensile Strength	18 Mpa	ISO 527
Elongation	> 300 %	> 300 %
Tear Resistance	> 64 N/mm	ISO 34-1 Method B
Adhesion to concrete	Concrete failure <sup>(note 1)</sup>	ISO 4624
Water Vapour Permeability	9.9 g/m <sup>2</sup> /day	ISO 15106, Part 3
Methane Permeability	30.6 ml/m <sup>2</sup> /day <sup>(note 3)</sup>	ISO 15105, Part 1
Shore Hardness	91A, 41D	ASTM 2240
Abrasion Resistance (Taber Wear index)	255 mg <sup>(note 2)</sup>	ASTM D4060

### Footnotes:

1. Tested on prepared, primed, and sand blinded concrete or steel
2. H18/1000 cycles/1000g
3. As a comparison. BRE Report 212 minimum standard 300 µm pe (200-300 ml/m<sup>2</sup>/day)

## Supply

	UNIT OF SALE
SILCOR® 900MP (Resin)	205 kg
SILCOR® 900MP (Iso)	225 kg
SILCOR® Primer EPF (Part A)	3.20 kg
SILCOR® Primer EPF (Part B)	1.80 kg
Storage	Store between 5°C & 25°C
Shelf life	9 months
Ancillary Products	
SILCOR® Top Coat 50	Optional UV protective coating
HYDRODUCT® 200 / 650	Optional drainage geocomposite sheets

## Liquid properties

	TYPICAL VALUE	TEST METHOD
Viscosity - Resin	400-600 cps <sup>(note 1)</sup>	Brookfield Viscometer
Viscosity - Iso <sup>(note 1)</sup>	800-1200 cps	Brookfield Viscometer
Solids Content	100 %	ASTM D1644

Specific gravity (Resin, Iso)	1.03 g/cm <sup>3</sup> , 1.11 g/cm <sup>3</sup> (note 1)
Coverage Rate (2 mm thickness)	2.2 kg/m <sup>2</sup>
Trafficable (foot traffic)	2 mins

**Footnotes:**

1. Measured at 25°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.

## European Technical Approval ETAG005 Levels of performance

	CHARACTERISTIC	LEVEL OF PERFORMANCE
	Minimum thickness	2.0 mm
	Water vapour resistance factor ( $\mu$ )	1941
	Resistance to wind loads	>50 kPa
CE	External fire performance	NPD(1)
0836	Reaction to fire	Euroclass E
ETA -13/	Categorisation by working life	W2
0522	Categorisation by climatic zones	S
	Categorisation by imposed loads	P4
	Categorisation by roof slope	S1
	Categorisation by surface temperature	
	- lowest	TL3
	- highest	TH4
	Slipperiness [Slope (°)/friction coefficient]	NPD

**Footnotes:**

1. External fire performance is dependent on the protection layer used in the roof specification. Deemed-to-satisfy inorganic coverings are listed in the Annex of Commission Decision 2000/553/EC.

## NBS Specification Clause

Refer to Clause J30/130 and J31/130.

## Chemical Resistance

SILCOR® 900MP offers protection to a wide range of chemicals. Contact GCP for specific details and recommended applications.

## Warranties

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

## Health and Safety

For SILCOR® 900MP and SILCOR® Primer EPF 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](http://gcpat.com).

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