

SILCOR[®] 900MP

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

Product Description

SILCOR[®] 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 900MP is extremely durable with excellent wear and chemical resistance and does not normally require additional protection against mechanical damage.

Principal Applications

New and remedial waterproofing for:

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

System Components

- SILCOR[®] 900MP – premium performance two component, spray-applied seamless waterproofing membrane.
- SILCOR[®] Primer EP LT – three-component epoxy primer fast curing at low temperatures for use 0 °C – 20 °C.
- SILCOR[®] Primer EPF – two-component epoxy primer for concrete substrates.
- SILCOR[®] Primer MT – two-component phosphate/epoxy primer for metal substrates.
- SILCOR[®] Primer PU 30 – 1 component polyurethane primer for bitumen sheets (mineralised face).
- 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.

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 (note 1)	ISO 4624
Water Vapour	9.9 g/m ² /day	ISO 15106,
Permeability		Part 3
Methane	30.6 ml/m ² /day	ISO 15105,
Permeability	(note 3)	Part 1
Shore Hardness	91A, 41D	ASTM 2240
Abrasion Resistance	255 mg (note 2)	ASTM D4060
(Taber Wear index)		

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/m²/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
Silcor Primer EP LT (Part A)	3.16 kg
Silcor Primer EP LT (Part B)	0.72 kg
Silcor Primer EP LT (Part C)	1.12 kg
Silcor Primer MT (Part A)	6.2 kg
Silcor Primer MT (Part B)	0.9 kg
Storage	Store between 5 °C & 25 °C
Shelf life	12 months
Ancillary Products	
SILCOR ®Top Coat 50	Optional UV
Hydroduct 200 / 650	protective coating
	Optional drainage
	geocomposite sheets

- 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%.

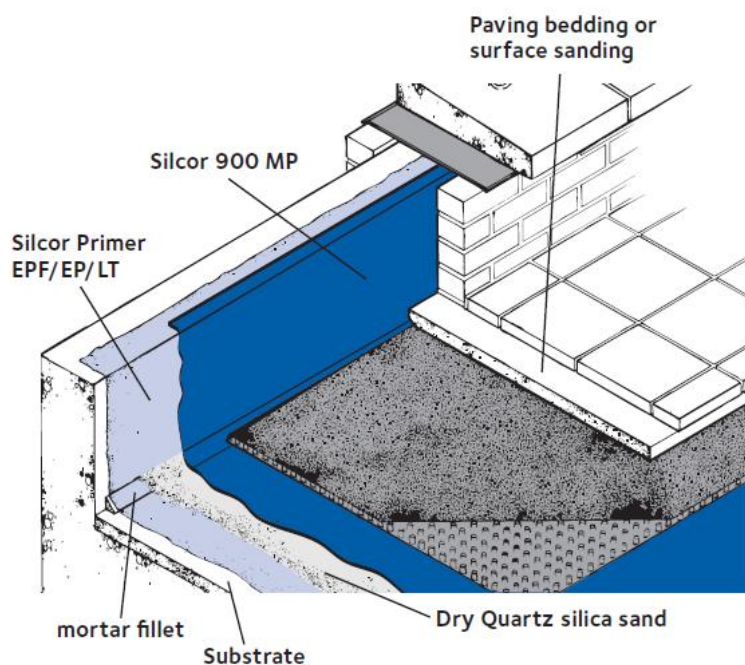
Health and Safety

For Silcor 900MP, Silcor Primer EPF, Silcor Primer EP LT and Silcor Primer MT 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.

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



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

Liquid properties

	TYPICAL VALUE	TEST METHOD
Viscosity – Resin	400–600 cps	Brookfield
	(note 1)	Viscometer
		Brookfield
Viscosity – Iso	800–1200 cps	
(note 1)	Viscometer	
Solids Content	100 %	ASTM D1644
Specific gravity	1.03 g/cm ³ ,	
(Resin, Iso)	1.11 g/cm ³ (note 1)	

Coverage Rate	2.2 kg/m ²
(2 mm thickness)	
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 (μ)	1941
	Resistance to wind loads	>50 kPa
	External fire performance	NPD(1)
CE		
0836		
ETA -13/		
0522		
	Reaction to fire	Euroclass E
	Categorisation by working life	W2
	Categorisation by climatic zones	S
	Categorisation by imposed loads	P4
	Categorisation by roof slope	S1

Categorisation by surface	TL3
temperature – lowest – highest	TH4
Slipperiness	NPD
[Slope (°)/friction coefficient]	

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.

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.

NBS Specification Clause

Refer to Clause J30/130 and J31/130.

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