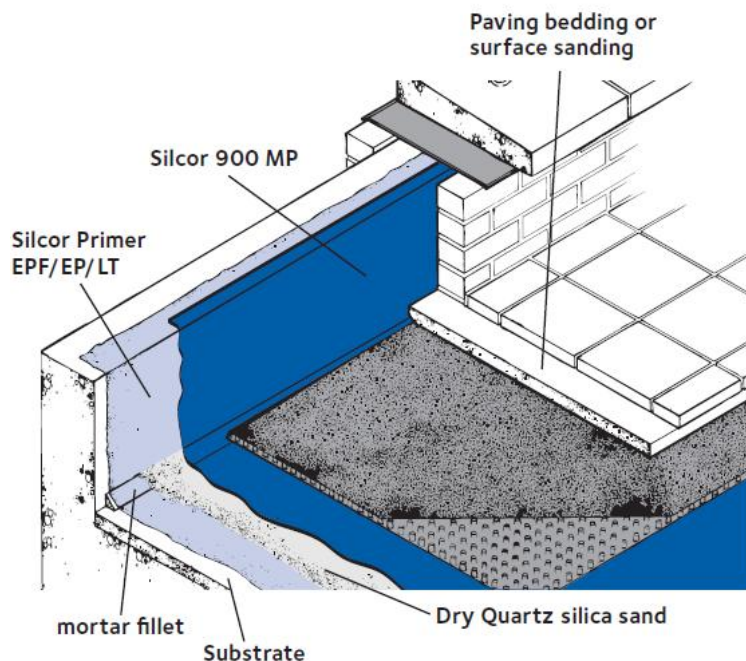


SILCOR[®] 900MP

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.



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

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 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.
- 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 ^(note 1)	ISO 4624
Water Vapour Permeability	9.9 g/m ² /day	ISO 15106, Part 3
Methane Permeability	30.6 ml/m ² /day ^(note 3)	ISO 15105, Part 1
Shore Hardness	91A, 41D	ASTM 2240
Abrasion Resistance (Taber Wear index)	255 mg ^(note 2)	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/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 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 ^(note 1)	Brookfield Viscometer
Viscosity – Iso ^(note 1)	800–1200 cps	Brookfield Viscometer
Solids Content	100 %	ASTM D1644
Specific gravity (Resin, Iso)	1.03 g/cm ³ , 1.11 g/cm ³ ^(note 1)	
Coverage Rate (2 mm thickness)	2.2 kg/m ²	
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
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, 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.

gcpat.uk | United Kingdom customer service: +44 (0) 1480 478421

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.

SILCOR is a trademark, which may be registered in the United States and/or other countries, of GCP Applied Technologies Inc. This trademark list has been compiled using available published information as of the publication date and may not accurately reflect current trademark ownership or status.

© Copyright 2016 GCP Applied Technologies Inc. All rights reserved.

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

GCP Applied Technologies (UK) Ltd, 487-488 Ipswich Road, Slough, SL1 4EP

This document is only current as of the last updated date stated below and is valid only for use in the United Kingdom. It is important that you always refer to the currently available information at the URL below to provide the most current product information at the time of use. Additional literature such as Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations and other relevant documents are also available on www.gcpat.uk. Information found on other websites must not be relied upon, as they may not be up-to-date or applicable to the conditions in your location and we do not accept any responsibility for their content. If there are any conflicts or if you need more information, please contact GCP Customer Service.

Last Updated: 2022-11-24

gcpat.uk/solutions/products/silcor-liquid-waterproofing/silcor-900mp