



Silcor® 900

Seamless Waterproofing

For Buried Roofs and Decks



gcp applied technologies

Silcor® 900 Seamless Waterproofing For Buried Roofs & Decks

Silcor® 900 is a sprayable or hand-applied liquid waterproofing system developed by GCP Applied Technologies, an industry leader in structural waterproofing. Based on polyurea chemistry, Silcor 900 is engineered specifically for commercial and residential structural roofs and decks. Its ultra-fast curing system creates a durable, fully bonded and seamless waterproofing membrane that is easier and more efficient to apply than conventional methods.

- **ULTRA RAPID**

Applied in a single layer to prepared surfaces without reinforcement, pitch pockets or capsheets, Silcor® 900 membranes are rain resistant and trafficable within minutes. Typically, up to 500 m² of surface area can be waterproofed per day including priming. Silcor® 900 can be applied year round using GCP's fast curing primers.

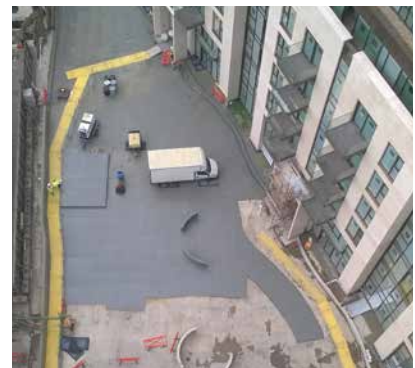
- **TOUGHER**

Silcor® 900 is ideal for busy construction sites. It is tough enough for traffic and treated areas are serviceable the same day as application. Silcor 900 is chemically resistant and upstands can be finished aesthetically with GCP's colour stable top coats.

- **SAFER**

Risks are significantly minimized with Silcor® 900. Applied without hot works, Silcor® 900 is solvent and VOC free and produces low odour.

Silcor® 900MP - Ultra fast spray application by specialists:



Silcor® 900HA - Easy hand application for small or confined areas:



What Makes Silcor® 900 The Right Choice?

	Advantages	Benefits	Other Systems
FAST	Ultra fast chemical curing, trafficable in minutes	Efficient application and fast track	Variable curing times depend on conditions
	Seamless single layer membrane	Simplified detailing of terminations, penetrations and interfaces	Multiple application layers Laps and complex fabric detailing
TOUGH	High durability, chemical resistant, inherently resilient	Self-protecting, treated areas quickly serviceable	Costly protection layers Restricted site operations while exposed
	Chemically linked, elastomeric and structurally bonded	Excellent crack bridging and puncture resistance	Reinforcement fabric needed for strength and durability
SAFE	Spray or hand applied membrane without hot works	Safe and easy application with reduced health, hazard and site risks	Complex and dangerous applications requiring boilers, LPG and onerous hot works permits
	Solvent and VOC free membrane	No disturbing or noxious odour Reduced environmental hazards	Risk disrupting surrounding works and neighbours



NO FLAMES OR BOILERS



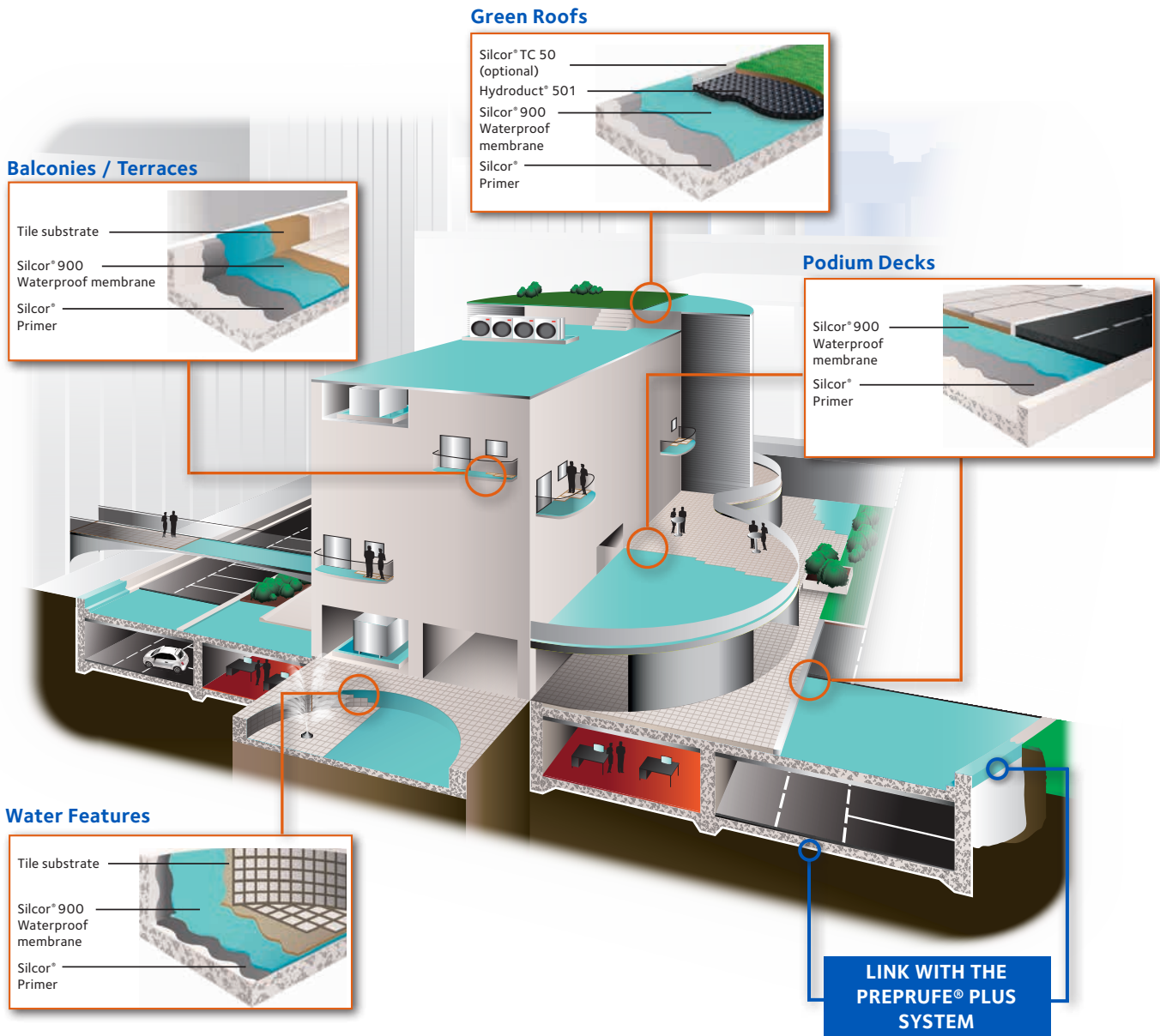
LOW ODOUR



SPRAY OR HAND APPLIED



Versatile Silcor® 900 Solves Buried Waterproofing Problems Across Your Project

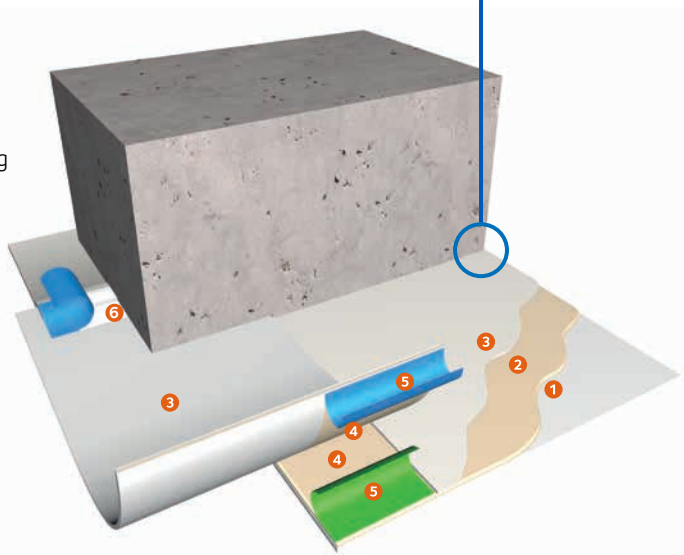


- Silcor® – Colour shown is for illustrative purposes only
- Preprufe® – Silcor® is designed to complement GCP Preprufe® basement waterproofing

Silcor® membranes are designed to link with the Preprufe® Plus system providing a secure continuity of the waterproofing system

Preprufe® Plus Waterproofing System Adhesively Seals to Poured Concrete to Prevent Water Tracking

- 1 Durable and flexible HDPE geomembrane
- 2 Continuous layer of waterproofing adhesive
- 3 Patented non-absorbent surface coating
- 4 5 Ziplap™ adhesive layers and liners
- 6 Preprufe® Tape for detailing



Project Profile

A new office build project in West London incorporated a basement car park designed to be larger than the building footprint. The car park required a concrete basement 'lid' around the perimeter of the building. Waterproofing the lid, prior to installing pavement and planted areas, was achieved using Silcor® 900.

Here's How:

Silcor® 900HA (hand applied) was installed to form a 50 cm waterproofing strip at the facade line of the building. Left exposed for a full winter while cladding panels were installed, after 9 months the strip required only minimal repair prior to phase 2 of the waterproofing works.

Silcor® 900MP (spray applied) was installed on the main basement 'lid' areas, where 1,000 m² coverage of both primer and membrane was achieved in a sixteen hour application period (around 60 m² per hour for full system). Silcor® Primer EP LT, an epoxy primer formulated for rapid cure at low temperatures, was used to accelerate the Silcor® 900MP application; curing times were reduced from approximately six hours to two hours. One day after Phase 2 of waterproofing, screeding of the paved areas started without the need to protect the Silcor® waterproofing.



Silcor® Waterproofing

1. Installation in two distinct phases
Phase 1: Silcor 900HA installed
Phase 2: Silcor 900MP laps installed easily and securely onto previously applied waterproofing
2. Only minimal repairs needed before starting Phase 2 after nine months of exposure and site activity
3. Screeded immediately after Phase 2 to enable quick installation of paving

Silcor® Project References

Lillie Square (Earls Court)	UK	Langley Park Spa Hotel	UK
Wood Wharf - Road Box (Northern)	UK	Bournemouth International Hotel	UK
Crossrail - Farringdon Station	UK	Altnagalvin Hospital	Ireland
Crossrail - Bond Street	UK	Cumberland House	Ireland
Crossrail - Tottenham Court Road	UK	Ger Gul Mavisehir No:4 y	Turkey
Victoria Circle Transport Interchange (Nova)	UK	Vadistanbul Bulvar	Turkey
Gatwick Airport North Terminal Extension	UK	DOGA - PRUVA 34	Turkey
Heathrow T2A	UK	QUASAR	Turkey
Equinix Data Centre	UK	KOC Contemporary Art Gallery	Turkey
Royal Wells Park	UK	Doga Malatya Avm	Turkey



Crossrail Stations
UK



Gatwick Airport
UK



Pharmaceutical facility
UK



QUASAR
Turkey

Silcor® 900 Seamless Waterproofing

GCP Technical Expertise Available from Planning to Completion

GCP's global team of technical experts and resources, are committed to ensuring your project runs smoothly from start to finish. GCP brings global relationships, manufacturing infrastructure, knowledge of best practices and extensive experience with the complexities of construction to large and small projects.

Silcor® System Primers

		Application temperature
Silcor® Primer EPF	Two component epoxy resin primer, formulated specifically to optimise the performance of Silcor® liquid waterproof membranes	+5 °C to +25 °C
Silcor® Primer EP LT	Three component epoxy resin primer, formulated specifically to optimise performance and application time of Silcor® liquid waterproof membranes	0 °C to +20 °C
Silcor® Primer EPS	Two component epoxy primer specifically formulated for application in hot weather conditions such as tropical countries or in the summer	+10 °C to +40 °C
Silcor® Primer PU30	Single component polyurethane primer, formulated specifically to optimise the performance of Silcor® liquid membranes applied to bitumen sheets	+5 °C to +30 °C
Silcor® Primer MT	Two component phosphate/epoxy primer for metal surfaces prior to the application of Silcor® liquid membranes	+5 °C to +30 °C

For enquiries, information and case studies please visit gcpat.com

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