# SIL 60™

## ONE COMPONENT SILICONE ELASTOMER WATERPROOFING SYSTEM WITH HIGH UV RESISTANCE

## DESCRIPTION

**SIL 60™ Silicone Elastomeric Coating** is a one component water-based 100% silicone elastomer that cures to form seamless crack bridging surface waterproofing membrane with breathable properties that seal out water but let substrate water vapour to escape.

Certified as a waterproofing coating in compliance with ETAG005, **SIL 60™** remains resistant to diluted acid and alkaline only when exposed to them for a short period of time. **SIL 60™** is also suitable for water-ponding area. It has excellent water resistance properties and good bonding to concrete and cement surfaces.

## AREA OF APPLICATION

**SIL 60™** area of usage to waterproof; mostly covered all in building concrete structure such as:

- R.C Flat Roof, Gutter
- Roof Garden
- Terraces, Balconies and Patios
- Bathroom, Powder Room (Floor and Wall)
- Wet Areas
- Planter Boxes
- Swimming Pools
- Water Features
- Courtyard

## FEATURES & BENEFITS

- Easy to apply
- High and low temperature resistance
- Water based and environment friendly
- High flexibility and elastic property
- Suitable for wet and damp conditions.
- Non-toxic and odourless.

## TECHNICAL CHARACTERISTIC

| | Result |
|---|---|
| Form | Blue & Grey |
| PH Value | 6-8 |
| Solid Content | 65% |
| Dry Time | 45 min |
| Crack Resistance | 4.5 – 6mm |
| Elongation at Break, ASTM D412 | >600% |
| Tear Strength, Mpa | 7.6 |
| Water Absorption, BS1881:Part 122 | 0.05% |
| Dry Thickness, 2 coats | 1.0mm |

## PRODUCT PACKING

Packing : 20 kg/pail
Shelf life (un-open) : 12 months

## COVERAGE

0.5kg/m²/coat

*20kg = 20m² for 2 coats of application (internal building)

*20kg = 13.33m² for 3 coats of application (external building)

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## SURFACE PREPARATION

All substrate should be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion. Spelled and deeply disintegrated concrete should be removed to sound concrete and repaired.
Newly placed concrete should be cured for minimum 14 days before application.

## APPLICATION

**Priming**

Priming is required for highly porous areas. Apply primer layer at rate of 0.1-0.3 kg/m²/coat of **SIL 60™** (10% dilution with water).

**Application**

Dampened the surface with sprinkled water. Apply first neat coat at 0.5kg/m² by roller, brush or squeegee to the substrate. Suitable airless spray can also be used for the application of **SIL 60™.**

Allow the first neat coat to cure approximately 4 hours before applying the second coat.

Third coat application is necessary for external building area.

**SIL 60™** should be applied to the recommended coverage as stated.

For trafficable exposed area: after application of primer coat, lay one neat coat of SIL 60 and follow by a layer of **E70-Fiber Mat** on top and finish with another wet coat. Another coat may be required if necessary.

## CURING

For optimum performance, the entire **SIL 60™** system should be allowed to cure for 72 hours before laying protective screed or water ponding test/water sheet test at least 25˚C. During that time, precautions must be taken to avoid damaging the coating.

## IMPOTANT INFORMATION

Use **SIL 60™** only in dry weather with relative air humility below 75%.

The substrate temperature must be between 5˚C - 50˚C. Make sure the substrate temperature above 3˚C above the thaw point when working in cold weather to avoid a separating moisture film.

Apply **SIL 60™** in several thin layers (max. 1mm) and allow layer to dry completely before applying the next layer to avoid blistering. The same problem may happen if applying in excessive residual moisture.

## PROTECTION

Protect the freshly applied waterproof coating from dirt, rain, grease or other loose materials during its drying time.

Keep out from other trade of work that might cause damages to waterproofing coating.

## MAINTENANCE OF MACHINERY & TOOLS

**SIL 60™** should be removed from tools and equipment immediately after use with clean water. Hardened material can only be removed mechanically.

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## HEALTH &SAFETY

Use protective clothing, gloves and goggle at all time when handling materials and high pressure machine.

Wash with plenty of water and soap if liquid is smeared on skin. Seek immediate medical advice in case of material comes in contact of eyes or swallow. Make sure proper ventilation at work site is adequate.

**POLYCELL TECHNICAL DEPARTMENT**

**OUR COMPANY COMMITMENT – Polycell's personnel are all fully trained to provide product information, guideline, training and technical assistance. We also provide product presentation and technical specification & consultancy services for Architects and Engineers.**



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