

PRODUCT DATA SHEET

Sikalastic® -680

Single Component Highly Elastic Polyurethane Waterproofing Membrane

PRODUCT DESCRIPTION

Sikalastic®-680 is a single component, liquid applied polyurethane waterproofing membrane for concrete structures that will be covered by protective toppings. Sikalastic 680 is flexible and provides a continuous seamless waterproofing membrane for a wide range of applications.

USES

- As waterproofing membrane on roofs, podiums, balconies, bathrooms, pools, tanks and planters
- As waterproofing coat for external wall, basements and foundations
- As water barrier under plasters, screeds or tiles

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion on concrete, render and masonry
- High crack bridging ability
- Good impact and abrasion resistance
- Good chemical resistance
- Non-toxic
- Easy to use and quick drying

PRODUCT DATA

FORM

COLOURS

Black

PACKAGING

20 kg per pail

STORAGE

STORAGE CONDITIONS / SHELF-LIFE

9 months from date of production if stored properly in undamaged and unopened original sealed packaging in cool and dry conditions. Protect from direct sunlight and frost.

TECHNICAL DATA**CHEMICAL BASE**

Polyurethane

SOLID CONTENT

>90%

DENSITY

Approx. 1.3 kg/litre

VOC DATA

VOC content (ready to use) not exceeding 250 gm/litre [Type of regulated paint under the Air Pollution Control (volatile organic compounds) Regulation of Hong Kong: (Roof coatings (non-exposed))].

**MECHANICAL /
PHYSICAL PROPERTIES****TENSILE STRENGTH**

(According to ASTM D412)

Approx. 2 MPa

ELONGATION AT BREAK

(According to ASTM D412)

> 500%

TEAR STRENGTH

(According to ASTM D624)

Approx. 17 MPa

ADHESIVE TO CONCRETE (AFTER 7 DAYS)

1.5 Mpa (at 1.5mm wet film thickness)

SHORE A HARDNESS

(According to ASTM D2240)

40

TACK FREE

Approx. 3 hours (@25°C & RH 75%)

SYSTEM INFORMATION**APPLICATION DETAILS****CONSUMPTION / COVERAGE**Approx. 1.8kg/m²/2 coats (~ 1.5mm wet film thickness)

(Depending on surface profile and application method)

SURFACE PREPARATION

All substrates must be structurally sound, stable, dry and clean (compressive strength : min. 25 N/mm² and cohesive strength : min. 1.5 N/mm²). Smooth shiny surfaces are to be roughened while uneven surface to be leveled or filled first. All surfaces should be free of sharp protrudings, loose materials, de-bonded coatings, curing membranes, release agents,

wax residues, laitance, algae and moss, oils, dust, etc.

Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods. Cracks and faulty joints should be repaired.

APPLICATION INSTRUCTIONS

PRIMING

On very absorbent surfaces, a primer coat (dilute Sikalastic 680 with 5 % Thinner C) should be applied on the concrete surface prior to the application of waterproofing membrane. Care should be taken to ensure the required membrane final dry film thickness is achieved.

APPLICATION METHOD / TOOLS

Sikalastic 680 can be applied by brush, roller, trowel, squeegee or airless spray directly onto the treated substrate. Apply subsequent coats at different directions to the previous coat.

Before applying any coating, the previous coat must be touch dry. Subsequent coats should be applied within a max. period of 24 hours.

The finished membrane should be protected from damage by other trades.

APPLICATION TEMPERATURE

+5°C min / +45°C max.

CLEANING OF TOOLS

Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

NOTES ON APPLICATION / LIMITATIONS

- Not to be used as trafficable top coat
- Do not apply at ambient and substrate temperatures less than 5°C
- Do not apply directly to wet and damp surface
- Do not thin with water or other solvents
- Do not apply to areas when rain is imminent
- Ensure adequate ventilation during application
- Allow 3 days (@25°C & RH 75%) drying period before flood test on treated area. For situations of low temperature or high humidity, prolonged drying time is inevitable.
- For damp substrate (not fully cured), a moisture barrier coat should be applied prior to the application of Sikalastic 680.
- For bitumen and asphalt surface, a barrier primer should be applied .

| | |
|--------------------------------------|--|
| VALUE BASE | All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control. |
| LOCAL RESTRICTIONS | Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. |
| HEALTH AND SAFETY INFORMATION | For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data. |
| LEGAL NOTES | The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar. |

FOR MORE PRODUCT NAME® INFORMATION:



SIKA HONGKONG LTD
1507-12, 15/F, Block A,
New Trade Plaza,
6 On Ping Street,
Shatin, N.T. Hong Kong
www.sika.com.hk

Version given by
Maurice Au
Phone: + 852 2686 8108
Fax: +852 2645 3671
Mail: marketing@hk.sika.com

Product Data Sheet
Sikalastic® -680
Jun. 2014, VERSION 1