

PRODUCT DATA SHEET

Sikalastic®-680 AP

SINGLE COMPONENT HIGHLY ELASTIC POLYURETHANE WATERPROOFING MEMBRANE

DESCRIPTION

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

USES

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

PRODUCT INFORMATION

Chemical base	Polyurethane modified tar
Packaging	28 kg Pail
Shelf life	9 months from date of production if stored properly in undamaged and unopened original sealed packaging.
Storage conditions	Store in cool and dry conditions. Protect from direct sunlight and frost
Colour	Black
Density	~ 1.55 kg/l

TECHNICAL INFORMATION

Shore A Hardness	40	(ASTM D 2240)
Tensile Strength	≥ 1.2 N/mm ²	(ASTM D 412)
Elongation at Break	≥ 400 %, Free film	(ASTM D 412)
Crack Bridging Ability	2mm	(BS EN 14891)
Tensile Adhesion Strength	≥ 0.7 N/mm ²	(ASTM D7234)

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.

APPROVALS / STANDARDS

Resistance to root penetration under DIN 4062

SYSTEM INFORMATION

System Structure

Standard Coating System*

Sikalastic®-680 AP is applied in 2 or 3 coats

Total consumption: $\geq 1.4 - 2.1 \text{ kg/m}^2$

*Sika® Reemat Premium must be locally applied at areas with high movement, irregular substrate or to bridge cracks, joints and seams on the substrate as well as for details.

Standard Reinforcement System

Sikalastic®-680 AP is applied in a base coat layer, reinforced with Sika® Reemat Premium and sealed with 1 - 2 coats of Sikalastic®-680 AP.

Total consumption: $\geq 1.8 - 2.5 \text{ kg/m}^2$

Layer	Product	Consumption
1. Primer	Sikalastic®-680 AP diluted with 5% Xylene**	$\geq 0.25 \text{ kg/m}^2$
2. 1 st coat	Sikalastic®-680 AP	$\geq 0.7 - 1.0 \text{ kg/m}^2$ per coat
3. Reinforcement	Sika® Reemat Premium	-
4. 2 nd coat	Sikalastic®-680 AP	$\geq 0.3 - 0.5 \text{ kg/m}^2$ per coat
5. 3 rd coat	Sikalastic®-680 AP	$\geq 0.6 - 0.7 \text{ kg/m}^2$ per coat

**On very absorbent surfaces

Note:

1. Do not apply more than 0.75 kg/m^2 of Sikalastic®-680 AP per coat for layers without reinforcement.
2. These figures are theoretical and do not include for any additional material required due to surface porosity, surface profile, variations in level and wastage.

APPLICATION INFORMATION

Ambient Air Temperature

+5 °C min / +45 °C max.

Drying time

~3 h (Tack free)

(at +25 °C / 60 % r.h)

BASIS OF PRODUCT DATA

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.

IMPORTANT CONSIDERATION

- Not to be used as trafficable top coat
- 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
- Do not apply on precast or composite substrate
- Ensure adequate ventilation during application
- Allow 3 days (at +25 °C / 75 % r.h) 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 AP.
- For bitumen and asphalt surface, a barrier primer should be applied

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

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

APPLICATION INSTRUCTIONS

SUBSTRATE 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 sharpness, loose materials, de-bonded coatings, curing compounds, release agents, wax residues, laitance, algae and moss, oils, dust, or any other bond inhibitors. 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.

PRIMING

On very absorbent surfaces, a primer coat (dilute Sikalastic®-680 AP with 5% Xylene) should be applied on the concrete surface at consumption of 0.25-0.30 kg/m², prior to the application of waterproofing membrane.

APPLICATION

- Sikalastic®-680 AP 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 maximum period of 24 hours.
- The finished membrane should be protected from damage by other trades.

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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Product Data Sheet

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