

PRODUCT DATA SHEET

Sikalastic®-683 SG

(formerly Davco® K10 Polyurethane Eco)

WATER-BASED WATERPROOFING MEMBRANE



DESCRIPTION

Sikalastic®-683 SG is a flexible, water based polyurethane modified, elastomeric waterproofing membrane that is free of tar, bitumen, solvents or any hazardous substance. It is approved by the Singapore Eco labelling authority as a sustainable building material.

In addition to having high elongation, Sikalastic®-683 SG is non-blistering and UV resistant, with fast drying characteristics. It can be applied on damp surface making it ideal for use as a concealed waterproofing system for terraces and rooftops.

USES

- All types of roofs, balconies and decks.
- Retaining walls and basements.
- Waterproofing, repair and rust protection for gutters, troughs and tanks.
- Waterproofing and protection of parapet walls and flashings.

- Waterproofing of external areas such as suspended structures.
- Tanking.
- Sealing of joints.
- Lining faulty gutters and down-pipes.
- Eliminates soldering of cracked nonferrous roof valleys and flashings.

CHARACTERISTICS / ADVANTAGES

- Water based and environmentally friendly product.
- Suitable for use in confined areas.
- Liquid applied, no mixing required, easy to use.
- Flexible, seamless application, high solid content with rapid curing properties.

APPROVALS / STANDARDS

Singapore Green Building Product (Leader) Cert. No. SGBP 4187

PRODUCT INFORMATION

Packaging	20 litres pail
Shelf Life	12 months from date of production.
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.

TECHNICAL INFORMATION

Dry film thickness	Min. 0.6mm
Tensile Strength	> 1.5 N/mm ²

Tensile Adhesion Strength	Adhesion to substrate > 1.5 N/mm ²
Crack Bridging Ability	Crack bridging up to 2mm No crack
Resistance to Water Penetration	0
Elongation at break	> 200%

APPLICATION INFORMATION

Consumption	30 - 46 m ² per coat (about 0.67 - 0.43mm WFT) per 20 L pail
Contact Time	Set - to - touch 50 min

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete, Render and Lightweight blocks

- All new concrete slabs must be allowed to cure for at least 6 weeks. New render surfaces must be allowed to cure for at least 7 days.
- Old concrete / render substrates must be cleaned with a strong commercial grade detergent or degreaser, then thoroughly wash off all residue with clean water. Allow the surface to dry for at least 24 hours.
- Prime the surfaces with Sikalastic®-500 Acrylic Primer AP prior to applying Sikalastic®-683 SG.

Metal Surfaces

- All metal surfaces must be totally free of rust.
- Prime metal surfaces with Sikalastic®-3 Primer XP or equivalent

APPLICATION

- All surfaces to be treated must be as clean and dry as possible. It may be necessary to brush areas where dirt or scale cannot be removed, with a stiff broom.
- Check surface for cracks, splits, flashing, coverings, etc. Where cracks exceed 1 mm, they must be filled with fabric matting, followed by a liberal application of Sikalastic®-683 SG.

- Prime the surfaces with Sikalastic®-500 Acrylic Primer AP prior to applying Sikalastic®-683 SG.
- Sikalastic®-683 SG should be applied directly from the pail.
- Apply one coat of Sikalastic®-683 SG to the whole area and allow to cure, approx. 2-4 hours. (Temperature dependent) Apply the 2nd coat in a perpendicular direction to the 1st coat.
- All joints in floors should preferably be treated with additional coat of Sikalastic®-683 SG.
- Sikalastic®-683 SG can be applied by brush or roller. Normally a minimum of 2 coats is required, unless a trowel method of application is adopted.
- Where Sikalastic®-683 SG has to be applied to above a height of 500mm from the floor level, a wire-mesh is recommended to be fixed prior to applying the protective render to prevent cracking and to improve adhesion.
- Ponding should be carried out at least 48 hours after the final application of Sikalastic®-683 SG.
- Sikalastic®-683 SG is not to be used as a trafficable top coat. It is not resistant to permanent UV exposure and weathering.

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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