

PRODUCT DATA SHEET

Sikalastic®-680 RT GRS 2000

(formerly Davco® K10 GRS 2000)

ROOT RESISTANT WATERPROOFING MEMBRANE

DESCRIPTION

Sikalastic®-680 RT GRS 2000 is a liquid applied polyurethane elastomeric waterproofing membrane specially developed for use in roof gardens. Its root resistive property prevents the plant roots from tearing the waterproof membrane as they grow and flourish in the roof garden.

Sikalastic®-680 RT GRS 2000 is a concealed liquid applied waterproofing membrane that is easy to apply, allowing for fast, effortless and seamless application even in garden designs that are irregular and unique.

USES

- All types of roofs, balconies and decks.
- Retaining walls and basements.
- Waterproofing of planter boxes.
- Eliminates soldering of cracked non-ferrous roof valleys and flashings.

CHARACTERISTICS / ADVANTAGES

- Environmentally friendly.
- Protects against root penetration.
- Easy to apply.
- Gives a seamless waterproofing system with high tensile strength.
- High durability.
- Remain effective under extreme weather condition.

PRODUCT INFORMATION

Packaging	20 kg/pail
Shelf Life	9 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Keep away from direct sunlight and frost.
Solid Content	85% ± 2
Viscosity	> 5000 cP

TECHNICAL INFORMATION

Shore Hardness	35 (after two weeks)
Resistance to Dynamic Puncture	860 mm (drop height)
Resistance to Root Penetration	Yes
Tensile Strength	1.8 N/mm ²
Tensile Adhesion Strength	> 0.9 N/mm ²

Tear Strength	> 250 N
Water Vapour Transmission	1.09 E-08
Resistance to Water Penetration	Depth of water penetration 0.2 kg/cm ² for 12 hrs
Elongation at break	> 500%

APPLICATION INFORMATION

Consumption	Approximately 0.8 - 0.9 kg/m ² per coat
--------------------	--

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 CONSIDERATIONS

Sikalastic®-680 RT GRS 2000 is not to be used as a trafficable top coat and is not resistant to permanent UV exposure and weathering.

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

All surfaces to be treated must be as clean and dry as possible. It may be necessary to wire 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®-680 RT GRS 2000.

APPLICATION

- For new concrete substrates, priming is not necessary. For existing porous substrates, priming with Sikalastic®-680 RT Primer is recommended.
- Sikalastic®-680 RT GRS 2000 should be applied directly from the pail. Apply by brush one coat of Sikalastic®-680 RT GRS 2000 to the whole area and allow to cure for approx. 6-10 hours (temperature dependent)

- Apply the 2nd coat in a perpendicular direction to the 1st coat. It may require third coat to achieve final thickness.
- All joints in floors should preferably be treated with additional coat of Sikalastic®-680 RT GRS 2000.
- Sikalastic®-680 RT GRS 2000 can be applied using brush or roller. Normally a minimum of 2 coats is required, unless a trowel method of application is adopted.
- Where Sikalastic®-680 RT GRS 2000 has to be applied to above a height of 300 mm from the floor level, fix a wire mesh 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®-680 RT GRS 2000.

CLEANING

All tools and equipment should be cleaned immediately with clean water after use. Hardened material can only be removed mechanically.

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.

Sika (Singapore) Pte Ltd.
28 Tuas South Ave 8
Singapore 637648
Phone: +65 6861 0632
Fax: +65 6862 3915
Email: sales@sg.sika.com
www.sika.com.sg



Product Data Sheet
Sikalastic®-680 RT GRS 2000
July 2026, Version 02.01
020915205000000144

Sikalastic-680RTGRS2000-en-SG-(07-2026)-2-1.pdf