

PRODUCT DATA SHEET

Sika® Igolflex®-301 Waterproof IN

Elastomeric, ready to use resin based liquid-applied membrane for waterproofing

DESCRIPTION

Sika® Igolflex®-301 Waterproof IN is a one component, elastomeric, resin based liquid-applied membrane for waterproofing various types of horizontal and vertical surfaces. It is highly elastic, has good chemical resistance and suitable for foot traffic. It can be applied on both damp and dry substrates without any special pre-treatment. Needs to be protected with an overlay.

USES

The Product is used for :

- Waterproofing in areas where water is scarce as it does not mandatorily require surface saturated condition prior to waterproofing
- Wet rooms, swimming pools, etc--As an undertile waterproofing layer with and overlay of protective screed or tile adhesive followed by tile fixing
- Waterproofing of Gypsum based dry walls used for partitions
- Waterproofing of AAC blockwork and other types of hollow or solid blocks
- Waterproofing of precast POD type toilets/wash-rooms before fixing tiles with adhesive
- Waterproofing of damp proof course (DPC) at plinth level
- Protecting above-ground and below-ground concrete structures against dampness and moisture ingress

CHARACTERISTICS / ADVANTAGES

- One component ready to use
- Eco friendly-Water based, low VOC content
- Wet on wet application
- Can be applied on both dry and damp substrates
- Excellent bonding/adhesion to various types of substrates like RCC, PCC, Masonry, Blockwork, AAC Blocks, Gypsum based Dry walls, etc
- Does not require any special mixing tools at site
- No joints or seams which reduces the risk of water leakage
- Fully bonded to prevent water underflow
- Accommodates minor substrate movement ensuring continuous waterproofing
- Tiles can be placed directly onto the membrane using a suitable grade tile adhesive
- Good crack bridging ability
- Can be applied by brush or roller or a combination of both

PRODUCT INFORMATION

| | | |
|--------------------|--|---------|
| Chemical base | Synthetic resins, bituminous emulsion, filler and additives | |
| Packaging | 5 kg x 2 | 10 kgx1 |
| Colour | Greyish black | |
| Shelf life | 12 months from date of production | |
| Storage conditions | The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging | |

| | | |
|-------------------------|------------------------------|-----------------|
| Density | 1.40 ± 0.05 kg/l | (EN ISO 2811-1) |
| Viscosity | ≈ 45 Pa·s or 45000 cP @ 30°C | |
| Solid content by weight | ≈ 75 % | |

TECHNICAL INFORMATION

| | | |
|----------------------------------|---|--------------------|
| Shore hardness | ≥ 82 | (ASTM D 2240-2015) |
| Tensile strength | ≥ 2 .0 MPa | (ASTM D 412-2016) |
| Elongation | ≥ 150 % | (ASTM D 412-2016) |
| Tensile adhesion strength | ≥ 2.0 MPa (Concrete) | (ASTM D 7234-2022) |
| Tear strength | ≥ 15 N/mm | (ASTM D 624-2000) |
| Chemical resistance | Resistant to aggressive substances in natural ground water and soil | |
| Water penetration under pressure | Nil @ 5 bar/72 hrs | (EN 12390-8-2019) |
| Water absorption | < 5 % , 24 hrs | (ASTM D 570-2022) |

APPLICATION INFORMATION

| | | |
|--|---|--|
| Consumption | Total | 1.8 to 2.0 kg/sqm in 2 coats (ie, 168 - 185 g/sft in 2 coats) |
| | For Estimation Purpose | One pack of 5 kg covers approx 27 - 30 sft in 2 coats (ie, 2.7 to 3.0 sqm) |
| Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment. | | |
| Sag flow | No visible sag on vertical surfaces | |
| Ambient air temperature | +10 °C min. / +40 °C max | |
| Substrate temperature | +10 °C min. / +40 °C max | |
| Open time | Approx 45-60 mins at +30°C (this is indicative and will be affected by changing ambient conditions, particularly temperature and relative humidity) | |
| Tack free time | At +30 °C , | |
| | Initial | Approx 3-4 hrs |
| | Final | Approx 24 hrs |
| Waiting time / Overcoating | ~ 3 to 4 hours at +30 °C (this is indicative and will be affected by changing ambient conditions, particularly temperature and relative humidity) | |
| Curing treatment | Normal air curing under well ventilated conditions | |
| Applied product ready for use | Foot traffic | Approx 24 hrs |
| | Installation of an overlay of tile adhesive, screed, etc | Approx 3-5 days |
| | Note: This is indicative and will be affected by changing ambient conditions, particularly temperature and relative humidity | |

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.

USES

- The Product is not suitable for potable water direct

contact.

- The Product is not suitable for permanent water immersion.
- The Product is not suitable for direct exposure to vehicle traffic or pedestrian traffic
- Product should always be protected with an overlaying screed/tile adhesive layer

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

SUBSTRATE PREPARATION EQUIPMENT

- Grinding equipment
- Manual or mechanical wire brushes, etc

MIXING EQUIPMENT

- Mechanical stirrer (300 to 500 rpm)

APPLICATION EQUIPMENT

- Brush
- Fleece roller

SUBSTRATE QUALITY

GENERAL

- The substrate must be uniform, dry or slightly damp, free from dust, loose material, surface contamination, existing coatings, oil, grease, laitance and other materials which could reduce adhesion of the coating.
- All penetrations and structural joints should be properly treated
- Cementitious substrates must be sound with a minimum tensile adhesion strength of 1.5 N/mm².
- Weak surfaces must be removed and surface defects such as blow holes and voids must be fully exposed

Suitable substrates

- Masonry
- Concrete and cementitious substrates
- AAC Blocks
- Solid/Hollow Cement blocks
- Plasters
- Plasterboards
- Gypsum boards

SUBSTRATE PREPARATION

SURFACE REPAIRS

- Repair minor cracks by opening with a V-groove and then applying Sika® Igolflex®-301 Waterproof IN using a brush over the crack and extending on either side of the crack or use suitable Sika® repair products like low viscous epoxy, etc
- Seal all downtake or offtake pipes with suitable Sika®

repair products like epoxy putty/swellable sealant/repair mortars, etc

PRIMING

No priming is necessary

MIXING

MIXING

Do not dilute with solvent or water.

Mix for at least 2-3 minutes using a mechanical stirrer (300–500 rpm) till a uniform homogeneous color is obtained

APPLICATION

IMPORTANT

Protect from rain

After application, the product must be protected from heavy rain or rain showers until dry to prevent surface damage.

COATING

- Always begin application with detailing (corners, up-stands, joints) before installation of the main horizontal surfaces.
- Apply the product evenly over the surface with a brush/fleece roller.
- It is recommended to use either brush for both coats or brush for the first coat and roller for the second coat
- Back roll the surface in two directions at right angles

MEMBRANE UNDER CERAMIC TILES

- After the coating apply the appropriate Sika® tile adhesive over the top coat.
- Apply the ceramic tiles onto the adhesive in accordance with the manufacturer's instructions.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened material can be removed using locally available NC Thinner

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 re-

serves 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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