

## PRODUCT DATA SHEET

# Sika® Igoflex®-301

1-part elastomeric bituminous liquid applied membrane

### DESCRIPTION

Sika® Igoflex®-301 is a 1-part, water based, elastomeric bituminous liquid applied membrane for waterproofing against water ingress on horizontal and vertical surfaces.

### USES

#### Waterproofing

- Waterproofing and damp proofing of below and above ground concrete structures to protect against water ingress
- Waterproofing beneath final finishes such as tiles in wet rooms and swimming pools

#### Coating

- Protecting concrete from aggressive atmospheric gases (CO<sub>2</sub> and SO<sub>2</sub>)
- Localised repairs and detailing on slate-treated membranes

### CHARACTERISTICS / ADVANTAGES

- Seamless, no joints or seams
- Fully bonded system, prevents water underflow
- Low VOC emissions
- High crack bridging ability
- High elongation
- High adhesion to concrete
- Temporary UV resistance
- Ready to use and easy to apply
- Can be spray applied

### APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection systems for concrete - Coating
- CE Marking and Declaration of Performance to EN 14891 - Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives
- CE Marking and Declaration of Performance to EN 15814 - Polymer modified bituminous thick coatings for waterproofing

### PRODUCT INFORMATION

<b>Composition</b>	Synthetic resins, bituminous emulsion, filler and additives.	
<b>Packaging</b>	5, 10 and 20 kg containers Please contact our customer service, for information on what packaging sizes are sold in Denmark.	
<b>Shelf life</b>	12 months from date of production	
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
<b>Colour</b>	Black	
<b>Density</b>	1,50 ± 0,05 kg/L	(EN 2811-1)

Flash point	Non flammable	
Solid content by mass	73–82 %	
Viscosity	> 40 Pa·s	
Volatile organic compound (VOC) content	< 2 g/l	(EN 11890-2)

## TECHNICAL INFORMATION

Dry film thickness	Without reinforcement	2–3,0 mm	
	With Sika® Igoalflex® F-05	2–2,5 mm	
Tensile strength	Without reinforcement	1,4 ± 0,3 MPa	(ISO 37:2017)
	Reinforced with Sika® Igoalflex® F-05:		
	Longitudinal	660 ± 10 N	(EN 12311-2)
	Transversal	650 ± 10 N	(EN 12311-2)
Tensile strain at break	Without reinforcement	240 ± 40 %	(ISO 37:2017)
	Reinforced with Sika® Igoalflex® F-05:		
	Longitudinal	48 ± 20 %	(EN 12311-2)
	Transversal	50 ± 20 %	(EN 12311-2)
Crack bridging ability	> 3,5 mm at 20 °C		(EN 14891)
	≥ 1,5 mm at -5 °C		(EN 14891)
	Class CB2	No damage for crack width ≥ 2 mm and dry layer thickness ≥ 3 mm	(EN 15814)
Tensile adhesion strength	≥ 2,5 MPa		(EN 1542)
	To glass, steel and wood	≥ 1,0 N/mm <sup>2</sup>	(EN 14891)
	To concrete:	≥ 1,5 N/mm <sup>2</sup>	(EN 14891)
Service temperature	-30 °C min. / +80 °C max.		
Watertightness	> 500 kPa		(EN 14891)
Permeability to water vapour	5 m ≤ S <sub>d</sub> < 50 m - class II		(EN 7783)
Chemical resistance	Resistant to aggressive substances in natural ground water and soil. Contact Sika Technical Services for additional information.		
Reaction to fire	Class E		(EN13501-1)

## SYSTEM INFORMATION

### System structure

### Waterproofing Coating

Sika® Igoalflex®-301 is applied in 2 coats respecting the overcoating time.

Layer	Consumption
1. Base coat	1,5–1,8 kg/m <sup>2</sup>
2. Top coat	1,5–1,8 kg/m <sup>2</sup>

Total consumption: 3,00–3,70 kg/m<sup>2</sup>

## Reinforced Waterproofing Coating

Recommended to use Sika® Igoflex® F-05 at areas with high movement (usually > 25 m<sup>2</sup>), irregular substrate or to bridge cracks, joints and seams on the substrate as well as for details.

Sika® Igoflex®-301 is applied in 2 coats by "wet on wet" application.

<u>Layer</u>	<u>Consumption</u>
1. Base coat	1,6–2,0 kg/m <sup>2</sup>
2. Reinforcement	-
3. Top coat	1,6–2,0 kg/m <sup>2</sup>

Total consumption: 3,25–4,00 kg/m<sup>2</sup>

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

## APPLICATION INFORMATION

<b>Consumption</b>	~1,5 kg/m <sup>2</sup> (wet film ~1,0 mm / dry film ~0,8 mm). Waterproofing in two layers: Maximum thickness per layer: 2,0 mm (dry film). These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.
<b>Ambient air temperature</b>	+5 °C min. / +35 °C max.
<b>Relative air humidity</b>	80 % r.h. max.
<b>Substrate temperature</b>	+5 °C min. / +30 °C max.
<b>Substrate moisture content</b>	≤ 4 % parts by weight
<b>Curing time</b>	~4 days at +20 °C Time is approximate and will be affected by substrate, film thickness and changing ambient conditions particularly temperature and relative humidity.
<b>Waiting time to overcoating</b>	~24 hours at +20 °C Time is approximate and will be affected by substrate, film thickness and changing ambient conditions particularly temperature and relative humidity.
<b>Drying time</b>	~6 hours at +20 °C Time is approximate and will be affected by substrate, film thickness and 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.

## FURTHER INFORMATION

- Sika® Method Statement: Bituminous Liquid Applied Membranes

## IMPORTANT CONSIDERATIONS

- Do not apply in the rain.
- After the application, product must be protected from rain, dew, frost and direct sunlight etc. until cured.

- After full cure, product can be exposed to temporary foot traffic.
- Do not use for contact with potable drinking water.
- Additional joint sealing using Sika® Joint Sealing Solutions is recommended for connections, around penetrations and expansion joints.

## 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

## EQUIPMENT

Select the most appropriate equipment for all applications required for the project:

- Paintbrush
- Large brush,
- Roller,
- Trowel
- Air less spray equipment

## SUBSTRATE QUALITY

Substrate must be uniform, dry or slightly damp, free from dust, loose material, surface contamination, existing coatings, oil, grease and other materials, which could reduce adhesion of the coating.

Suitable substrates: concrete, cementitious, brickwork, ceramic tiles, metal, plaster, plasterboard, wood and polystyrene.

## SUBSTRATE PREPARATION

### General

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

To confirm adequate surface preparation and Sika® Igoflex®-301 adhesion, carry out a small trial before full application together with adhesion tests as required.

### Cementitious substrates

Substrate must be sound with a minimum tensile adhesion strength of 1,5 N/mm<sup>2</sup>, clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material. Substrates must be prepared mechanically using suitable substrate preparation equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness. High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sika® Igoflex®-301.

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### Brickwork

Mortar joints must be sound and preferably flush pointed. Use localised Sika® reinforcement over joints.

### Ceramic tiles

Ensure all tiles are securely fixed. Replace any broken, loose or missing sections. Power wash and use Sika® Biowash as required.

### Metal

Metals must be in a sound surface condition. Abrade exposed surfaces to a bright metal finish. Use localised Sika® reinforcement over joints and fixings.

### Wood

Wood must be in good structural condition, firmly adhered or mechanically fixed.

### Other substrates

Must be in good condition, firmly adhered or mechanically fixed.

## CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened Sika® Igoflex®-301 can be removed with Sika® Colma - Cleaner.

## 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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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