

PRODUCT DATA SHEET

Sika® Igoflex®-201 DE

Fibre-reinforced bituminous liquid-applied membrane

DESCRIPTION

Sika® Igoflex®-201 DE is a 2-part, flexible and thick bituminous coating. It is polymer-modified, water-based and fibre-reinforced used for waterproofing against damp and moisture penetration.

USES

Sika® Igoflex®-201 DE is used as a waterproofing membrane for:

- Horizontal reinforced concrete slabs, decks and podiums
- Vertical porous surfaces such as brick and concrete basement walls.

Please note:

- The Product is not suitable for contact with potable water
- The Product is not suitable for elements exposed to vehicular and pedestrian traffic
- The Product is not suitable for elements exposed to UV radiation

FEATURES

- Fast curing
- Impermeable to liquids
- Seamless
- Fully bonded to prevent water underflow
- Good crack-bridging ability
- Adheres to solid, clean, dry or slightly damp surfaces
- Easy to apply

CERTIFICATES AND TEST REPORTS

CE marking and declaration of performance based on EN 15814:2011+A2:2014 Polymer modified bituminous thick coatings for waterproofing - Definitions and requirements

PRODUCT INFORMATION

Composition	Polymer modified and fibre reinforced bitumen emulsion and reactive hydraulic binder.	
Packaging	Part A	21 kg
	Part B	7 kg
	Part A + Part B	28 kg
Appearance and colour	Part A - liquid	Black
	Part B - powder	Grey
	Part A + Part B - fresh	Brownish black
	Part A + Part B - cured	Black
Shelf life	12 months from date of production	

Storage conditions

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.
Refer to the current Safety Data Sheet for information on safe handling and storage.

Density	Part A	0.97 kg/l
	Part B	1.50 kg/l
	Mixed Product	1.15 kg/l

TECHNICAL INFORMATION

Crack bridging ability	Class CB 2	No damage (crack width \geq 2 mm and dry layer thickness \geq 3 mm)	EN 15812
Watertightness	Class W2A	Pass (\geq 72 h at 0.075 N/mm ² for dry layer thickness with inlay \geq 4 mm)	EN 15820
Service temperature	-20 °C to + 80°C (after curing)		

APPLICATION INFORMATION

Mixing ratio	Part A : Part B (by weight)	3 : 1	
Consumption	The consumption is approx. 1,1 kg/m ² and mm wet layer thickness.		
	Type	Total consumption	wet film thickness
	Damp proofing	4,5 kg/m ²	4 mm
	Waterproofing	5,5 kg/m ²	5 mm
			dry film thickness
			3 mm
			4 mm
	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 the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.		
Layer thickness	2.0 - 2.5 mm per layer		
Substrate moisture content	Substrate	Test method	Moisture content
	Cementitious substrates	Calcium carbide method (CM Method)	\leq 4%
	No rising moisture (ASTM D4263, polyethylene sheet). The substrate must be visibly dry with no standing water.		
Pot Life	+ 23 °C and 50 % relative humidity	60 minutes	
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Time are also dependant on layer thickness.		
Curing time	+ 23 °C and 50 % relative humidity	2 days	
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Time are also dependant on layer thickness.		
Waiting time to overcoating	+ 23 °C and 50 % relative humidity	2 - 4 hours	
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Time are also dependant on layer thickness.		

Drying time

+ 23 °C and 50 % relative humidity Touch dry in 2 - 4 hours

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity. Time are also dependant on layer thickness.

System structure

UNREINFORCED COATING

Layer	Product
Primer	1 x Sika® Igoalflex® P-01
Base Coat	1 x Sika® Igoalflex®-201 DE
Top Coat	1 x Sika® Igoalflex®-201 DE

REINFORCED COATING

Layer	Product
Primer	1 x Sika® Igoalflex® P-01
Base Coat	1 x Sika® Igoalflex®-201 DE
Reinforcement	1 x Sika® Igoalflex® F-01
Top Coat	1 x Sika® Igoalflex®-201 DE

Use the reinforcement in areas with high movement (usually > 25 m2), irregular substrates or to bridge cracks, joints and seams on the substrate as well as for details.

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.

EQUIPMENT

Mixing equipment

- Electric single paddle mixer (300 to 400 rpm)

Application Equipment

- Notched trowel (> 4 mm)
- Flat trowel
- Airless sprayer
- Peristaltic delivery pump for spraying

SUBSTRATE QUALITY

The substrate must be uniform and sound. Cementitious substrates must be sound with a minimum tensile adhesion strength of 1.5 N/mm².

Where ancillary products are mentioned, refer to the relevant Product Data Sheet.

Penetrations and structural joints

Note: Additional Sika joint sealing solutions must be used for connections around penetrations and for construction joints

SUBSTRATE PREPARATION

Clean and prepare surfaces using suitable preparation techniques to provide a clean slightly textured sur-

face.

Repair defects with an appropriate Sika® repair mortar. Prime porous substrates using Sika® Igoalflex® P-01.

IMPORTANT

Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

- Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove weak cementitious substrates
 2. Prepare cementitious substrates mechanically using abrasive blast cleaning, abrasive planing or scarifying equipment to remove cement laitance
 3. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
 4. Use products from the Sika® Monotop®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.
- Prime porous substrates with Sika® Igoalflex® P-01

Contact Sika® Technical Services for additional information on products for leveling and repairing defects

MIXING

MIXING PROCEDURE

1. IMPORTANT Mix full units only. Prior to mixing all parts, mix Part A (liquid) using an electric mixer (300 - 400 rpm) with adequate single mixing paddle until a uniform color has been achieved.
2. Gradually add Part B (powder) to Part A (liquid) whilst mixing.

PRODUCT DATA SHEET

Sika® Igoalflex®-201 DE
January 2025, Version 01.02
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- **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly colored mix is achieved.

Note: During this mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing.

- Total mixing time of Parts A + B is 3 minutes.

APPLICATION

IMPORTANT

Strictly follow installation procedures

Strictly follow installation procedures as defined in Method Statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

IMPORTANT

Exposure to UV or weathering

The Product is not resistant to permanent UV exposure or weathering.

Contact Sika Technical Services for detailed advice.

UNREINFORCED COATING

Preconditions

Adhesion tests and practical trials have been carried out to confirm adequate surface preparation has been achieved and environmental conditions are suitable for application.

1. Apply the first layer of the Product evenly over the surface using a notched trowel or by spraying with suitable sprayer.
2. Immediately smooth the surface with a flat trowel to fill gaps and voids.
3. Leave the Product for the required waiting time to overcoating.
 - Note: For details on waiting time to overcoating, see Application Information.
4. Apply a second layer of the Product evenly over the surface using a notched trowel or by spraying with suitable sprayer.
5. Immediately smooth the surface with a flat trowel to fill gaps and voids.

REINFORCED COATING

Preconditions

Adhesion tests and practical trials have been carried out to confirm adequate surface preparation has been achieved and environmental conditions are suitable for application.

1. Apply the first layer of the Product evenly over the surface using a notched trowel or by spraying with a worm pump.
2. **IMPORTANT** Embedment overlaps of the reinforcement must be a minimum of 100 mm. Immediately embed the reinforcement 'wet on wet' into the base

coat.

3. Immediately smooth the surface with a flat trowel to fill gaps and voids.
4. Leave the Product for the required waiting time to overcoating. Note For details on waiting time to overcoating, see Application Information.
5. Apply a second layer of the Product evenly over the surface using a notched trowel or by spraying with a worm pump.
6. Immediately smooth the surface with a flat trowel to fill gaps and voids.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed with Sika® Colma Cleaner or 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

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.

Sika Danmark A/S

Hirsemarken 5
3520 Farum
Tlf. +45 48 18 85 85
www.sika.dk



PRODUCT DATA SHEET

Sika® Igoflex®-201 DE
January 2025, Version 01.02
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