

PRODUCT DATA SHEET

Sika® Igoflex®-181 GR

ELASTIC, POLYMER MODIFIED BITUMINOUS EMULSION

DESCRIPTION

Sika® Igoflex®-181 GR is an elastic bituminous emulsion, enhanced with polymers and special additives in a pasty form.

USES

Suitable for many different waterproofing applications:

- Foundations
- Retaining walls and drainage walls
- Floors
- Repairing works on roofs
- Collector protection, e.t.c.
- For protection and waterproofing of building constructions made of concrete, mortars, bricks, e.t.c.
- Flat and pitched roofs as vapour control layer

CHARACTERISTICS / ADVANTAGES

- Solvent free, user and environmentally-friendly, non flammable and odourless
- Pasty consistency
- Unaffected by weak acidic and alkaline solutions
- Highly viscous, featuring crack bridging properties
- Applicable on dry or damp substrates
- Easy application
- Economic product
- Excellent adhesion over different substrates
- Resistant to ground-root acids
- Non toxic

PRODUCT INFORMATION

Composition	Aqueous bitumen, fillers, special additives and emulsifiers	
Packaging	18 kg pail 220 kg drum	
Colour	Black-brown	
Shelf life	24 months from date of production	
Storage conditions	Store properly in unopened and undamaged original sealed packaging, at temperatures between +5°C and +35°C. Protect from frost. If the product has been stored for a prolonged time, it can be thinned with water, if required.	
Density	1,02-1,1 gr/lt	(ISO 2811)
Volatile organic compound (VOC) content	43,05% w/w	(ASTM D 2939)

TECHNICAL INFORMATION

Tensile strain at break	≥ 255%	(ASTM D 412)
Permeability to water vapour	$S_D = 51,3 \text{ m}$	(EN ISO 7783)
Watertightness	5 atm For 3 days	(DIN 1048)

APPLICATION INFORMATION

Consumption	<ul style="list-style-type: none">Vapour barrier: 0,60-0,80 kg/m² per coatFoundation waterproofing: 1,50-2,50 kg/m² in 2 coatsVertical surfaces: 0,60-0,80 kg/m² in 2 coatsHorizontal surfaces: 2,00-3,00 kg/m² in 2 coats and 3,00-4,00 kg/m² using reinforcement. The consumption depends on the absorption, the type, the structure of the surface and the required protection grade.
Ambient air temperature	+5 °C min. / +40 °C max.
Drying time	< 24h (ASTM D 2939)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrate must be clean, free from dust, oil, grease, loose and friable parts. Concrete surface defects, such as voids, holes, e.t.c. must be repaired prior to application using repair mortars from Sika MonoTop® / SikaRep® / Sikadur® range of products. Removal of dirt can be performed using mechanical means or water jetting. Application surface can be dry or damp.

APPLICATION METHOD / TOOLS

Sika® Igoflex®-181 GR can be applied using brush. Apply 2 coats, crosswise, observing waiting time of ~24 hours between them (existing layer must be dry prior to the application of each following). First layer must be diluted with 30-50% water. Next layers can be applied undiluted or diluted with 20% water. Sika® Igoflex®-181 GR can be reinforced using glass fabric.

CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Superficially cured Sika® Igoflex®-181 GR can be removed using Sika® Colma or gasoline. Fully hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- Do not apply the product under direct sunlight. If it is possible apply the product under shadow and in ventilated area.
- Do not apply the product during rain.
- Sika® Igoflex®-181 GR can be applied reinforced with glass fiber fabric that is been placed between the product's layer, mainly for horizontal surfaces.
- Protect newly applied material from rain during the

curing time.

- During storage, if the product has been exposed to below zero temperatures, it must be transported to a warm area and must be left to return smoothly to normal (liquid) condition. Under no circumstances heat the product by exposing it to direct flame.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / i Type wb) is 140 g/l (Limits 2010) for the ready to use product.

The maximum content of Sika® Igoflex®-181 GR is < 140 g/l for the ready to use product.

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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