

PRODUCT DATA SHEET

Sika® Igoflex®-170 GR

Bituminous emulsion

DESCRIPTION

Sika® Igoflex®-170 GR is a water based bituminous emulsion in a pasty form.

USES

Suitable for many different waterproofing applications:

Protect concrete and other substructures such as:

- Floors
- Inclined roofs
- Brick constructions

It can also be combined with concrete and sand and latex bonding agent as to create a plastic mortar, with excellent mechanical resistance, which can be applied on industrial floors, gymnasium flooring, etc.

FEATURES

- Solvent free, odorless, user and environmentally friendly
- Excellent adhesion on concrete surfaces
- Fast drying
- Not affected by low concentration acid and alkaline solutions

PRODUCT INFORMATION

Composition	Sika® Igoflex®-170 GR is produced by bitumen in combination with special additives and water. It has a pasty form and doesn't contain any solvents.	
Packaging	18 kg pails 220 kg drums	
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. Agitate the product with a low spin drill before use.	
Colour	Brown Black	
Density	1050 – 1150 gr/lt	(ASTM D2939/98)
pH-Value	8 – 9 (25 °C)	
Volatile organic compound (VOC) content	44 – 46 % w/w	(ASTM D2939/98)
Residual indentation	<u>Residue after evaporation</u> 54 – 56 % w/w	(ASTM D2939/98)

Adhesion in peel	1.7 N/mm ²	(EN 1542)
Flexibility at low temperature	No cracking / peeling / loss of adhesion at 0 °C No cracking / peeling / loss of adhesion at -4 °C	(ASTM D2939/98)
Temperature resistance	No blistering, sagging or slipping at 100 °C	(ASTM D2939/98)
Water absorption	0.07 kg/m ² h	(EN 1062-3)
Permeability to water vapour	S _D =51.3 m	(EN ISO 7783)
Water resistance	No blistering or re-emulsification at 27 °C for 24 h	(ASTM D2939/98)

APPLICATION INFORMATION

Consumption	Consumption depends on the type of substrate and the characteristics of the intended use. Indicative for: <ul style="list-style-type: none"> ▪ Vapor Barrier: 0.3 – 0.6 kg/m² for each coat in 2 layers ▪ Vertical Surfaces: Concrete or brick substructure's protection 0.4 – 0.6 kg/m² in total. Watertight Coating: 1.5 – 2.5 kg/m² in total for multilayer application ▪ Horizontal Surfaces: 2.0 – 3.0 kg/m² in total for water-proofing or 3.0 – 4.0 kg/m² for each coat is required when using reinforcement 	
Drying time	<24 h	(ASTM D2939/98)

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

Do not apply the product during rain. 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.

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

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 slightly damp.

APPLICATION

Sika® Igoflex®-170 GR must be applied at least in two coats on each surface, by bristle brush, roller or airless spray. For the first layer on vertical surfaces, dilute with 40 – 50 % water. After the surface dries out, either dilute with ~30 % of water or use it as it is and proceed on the second application. For the first layer on horizontal trafficable surfaces, dilute with 50 % water. After the surface dries out, proceed to the application of each next coat, either without any dilution or after dilution with a small amount of water. Sika® Igoflex®-170 GR can be combined with glass paper or/and burlap, creating an in-situ bitumen membrane. The material should not be applied at temperatures lower than 5 °C and higher than 35 °C, in conditions of increased humidity, rainfall and potential rainfall or under direct sun exposition.

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®-170 GR can be removed using Sika® Colma or gasoline. Fully hardened / cured material can only be mechanically removed.

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.

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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Product Data Sheet

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