

PRODUCT DATA SHEET

Sika® Igoflex® AE

HIGH BUILD, FLEXIBLE BITUMINOUS RUBBER EMULSION COATING

DESCRIPTION

Sika® Igoflex® AE is a one part, water based, flexible, thixotropic, high build rubberized bitumen emulsion coating.
Suitable for tropical and hot climatic conditions.

USES

- Waterproofing of all types of below ground concrete structures such as concrete foundations, footings, retaining walls, bridge abutments, etc.
- Wet areas such as bathrooms, showers and kitchens
- Vapour barrier for walls, floors, and roofs
- Damp proofing for building exteriors and facades
- Protective coating for concrete structures, cement blocks and wood.

CHARACTERISTICS / ADVANTAGES

- Easy to apply, supplied ready to use
- Can be applied on dry and damp surfaces
- Tough elastic and seamless coating
- Provides high elasticity and crack bridging properties, due to ~10 % rubber content on dried film
- Non sag on vertical surfaces even at high temperatures
- Remains flexible at low temperatures
- Resistant to acid soil, saltwater, diluted chemicals, chlorides and sulphates
- Resistant to bacteria and fungus
- Water based

PRODUCT INFORMATION

Composition	Pasty Liquid	
Packaging	200 L drums	
Colour	Dark Brown / Black when dry	
Shelf life	12 months from date of production if stored properly.	
Storage conditions	Store in original sealed packaging, in cool and dry conditions under shade between +5 °C and +35 °C. Protect from direct sunlight and frost.	
Density	~1.00 kg/l	(ASTM D 70)
pH-Value	~11	
Solid content by weight	~55 %	(ASTM D 2369)
Viscosity	Thixotropic (~1600 cps) The viscosity can be adjusted by adding up to maximum 5 % of clean water. Stir well prior use.	
Elongation at Break	~1400 %	(ASTM D 412-06a)

Tensile Adhesion Strength	~1.7 N/mm width	(ASTM D 1000)
Temperature Resistance	No sign of flowing or dripping conditioned at ~100 °C for 2 hours	(ASTM D 1227)
Watertightness	Water Vapour Transmission	~3 g/m ² /24 h (ASTM E 96-95)
Service Temperature	0 °C min. / +50 °C max.	

APPLICATION INFORMATION

Consumption	0.6 - 0.9 kg/m ² /coat depending on substrates and the desired degree of protection. 1.8 kg/m ² for a dry film thickness of ~1 mm to be applied in minimum of two coats.	
Ambient Air Temperature	+8 °C min. / +35 °C max.	
Substrate Temperature	+8 °C min. / +35 °C max.	
Substrate Moisture Content	Slightly visible damp is acceptable - no standing water.	
Waiting Time / Overcoating	Apply successive coats when prior ones have completely dried. Waiting time in normal conditions Between 1 and 4 h Waiting time in damp and cold conditions Up to 6 h	
Applied Product Ready for Use	Cured after: 2 - 4 days dependent on ambient temperature, relative humidity and thickness of the coating.	

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate must be smooth, free of dust, grease, oil, and loose or friable particles. Surface defects, voids, honeycombing etc. in the concrete must be repaired before coating using, for example, the SikaRep® range of products.

SUBSTRATE PREPARATION

Dampen very dry concrete surfaces with clean water. Clean contaminated substrates by steam cleaning, high pressure water jetting etc.

APPLICATION METHOD / TOOLS

Drums must be stirred well before use.

Manual application:

- Apply 1st coat with notched trowel (tooth size 3 mm).
- Apply 2nd coat by brush or flat trowel at right angles to previous coat to achieve good coverage and uniformity.
- Apply a 3rd coat for very porous substrates or to build up thickness.
- Allow to dry 1 - 6 h between coats until touch dry.

Spray application:

- Use compressed air spray suitable for high viscous liquids with a feed pressure of ~4 bar.
- Pressure at gun ~2.5 bar.
- Apply in two coats. Do not mix the product with other materials.
- Allow to dry 4 - 6 h between coats until touch dry.

CLEANING OF EQUIPMENT

Clean all tools and equipment immediately after use with soap and water. Place tools in water during breaks. Hardened material can only be removed with Sika® Thinner C or mechanically.

IMPORTANT CONSIDERATIONS

- This product should only be used by experienced professionals.
- This product is not suitable as waterproofing against hydrostatic pressure.
- Do not apply the product during rainfall.
- Protect freshly applied material from temperatures above +35 °C and rain during the curing time.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 the exact product data and uses.

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.

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.

SIKA NORTHERN GULF

Bahrain / Qatar / Kuwait
Tel: +973 177 38188
sika.gulf@bh.sika.com
gcc.sika.com

SIKA SOUTHERN GULF

UAE / Oman / SIC
Tel: +971 4 439 8200
info@ae.sika.com
gcc.sika.com

SIKA SAUDI ARABIA

Riyadh / Jeddah / Damman
Tel: +966 11 217 6532
info@sa.sika.com
gcc.sika.com



ISO 9001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

Product Data Sheet

Sika® Igoflex® AE

May 2017, Version 02.01

020706040010000068

SikalgoflexAE-en-AE-(05-2017)-2-1.pdf