

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	
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.	
Colour	Dark Brown / Black when dry	
Density	~1.00 kg/l	(ASTM D 70)
Solid content by mass	~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.	
pH-Value	~11	
Tensile strain at break	~1400 %	(ASTM D 412-06a)
Tensile adhesion strength	~1.7 N/mm width	(ASTM D 1000)

Service temperature	0 °C min. / +50 °C max.		
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 hours	(ASTM E 96-95)

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 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 to overcoating	Apply successive coats when prior ones have completely dried. Waiting time in normal conditions Between 1 and 4 hours Waiting time in damp and cold con- Up to 6 hours ditions		
Applied product ready for use	Cured after: 2 - 4 days dependent on ambient temperature, relative humidity and thickness of the coating.		

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

- 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

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 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 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.

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.

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

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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