

Product Data Sheet
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Identification no:
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Igas® Ih

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Solvent free cold applied polyurethane based black elastic pourable sealant

Product Description

Igas® Ih is a 2-component, pre packed, ready to use polyurethane based black elastic pourable sealant for horizontal joint application.
It complies with BS 6093 and 5212

Uses

Igas® Ih is used to provide a flexible and long lasting seal for expansion joints in:

- Concrete roads (Pavement Quality Concrete - PQC)
- Parking areas
- Airport Runways / Taxiways
- Bridge deck joints
- Roofs

Characteristics / Advantages

- Stops the ingress of water.
- Eliminates corrosion of steel and concrete structures even in marine condition.
- Excellent impact resistance.
- Good mechanical properties.

Product Data

Form

Appearance/Colour

Part A+B mixed: black viscous liquid

Packaging

Part A : 3.50 kg container x 2
Part B : 0.20 kg container x 2
Part (A+B) : 3.70 x 2 ready to mix units

Storage

Storage Conditions / Shelf-Life

6 months from the date of production when stored properly in unopened undamaged and sealed original packaging in cool and dry condition at temperature +5°C to +30°C.

Technical Data

Chemical Base

Black pigmented polyurethane sealant

Mixed Density

~1.30 kg/l
All density values at +27°C

Mechanical / Physical Properties

Compressive Strength

~1.0 N/mm²

Application life

~ 15 minutes at 30°C



Curing Rate	Tack-free time- 24 hours at 30°C Full Cure – 7 days (at 30°C)
Shore-A hardness	25 (7 days)
Movement capacity	20% of average joint width
Resistance to occasional spillage	Dilute acid, mild alkali, Diesel, Petrol, Kerosene, Mineral Oil, Hydraulic Oil, Sprit
Application temperature	+10°C to + 40°C
Elongation at break	~250%
Solid content	100%


Application Details

Substrate Quality	Surface should be clean, sound and dry. Joints walls must be free from any bond breaking material such as cement laitance, oil, grease, curing compound, foreign particles or any loosely adhering particles.
Substrate Preparation	Ideally this should be accomplished by mechanical means. If required a bond breaker tape or backer rod must be used at the bottom.
Priming	For damp surface, priming with Sika® Primer 3.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +40°C max.
Ambient Temperature	+10°C min. / +40°C max.
Material Temperature	Igas® Ih must be at a temperatures of between + 10°C and + 40°C for application.
Substrate Moisture Content	Joints should be dry and the edges should be in sound condition. For damp / wet joint , Sika® Primer 3 should be used.

Application Instructions

Mixing	Part A : Part B =100 : 5.7 (by weight)
Mixing Time	 <p>Mix both components together thoroughly for 3 – 5 minutes with a spiral stirrer fitted to an electric hand drill not exceeding 200 rpm to avoid entrapping air until an uniform grey colour and consistency of the mix is achieved.</p>

Application Method / Tools	To apply, pour the mixed material in one direction and allow it to flow and level as necessary. Proper joint design is 2 : 1 width to depth ratio, with a minimum ¼ inch thickness for sealant. The surface should be dry. Don't apply in moist condition or in rain.
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Cleaning of Tools	Clean all tools and application equipment with Sika® Colma Cleaner immediately after use. Hardened / cured material can only be mechanically removed.
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Pot Life	100 g mass	(According to ASTM C 881)
	15 mins	27°C

Value Base	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.
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Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet 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.



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