

Bitumen/Rubber Based, Two Component Elastic, Waterproofing and Bonding Compound

PRODUCT DESCRIPTION

INKA-IZOFIX is a two component bitumen/rubber (polymer) based compound. It is an easy to use, fibre reinforced, brush applicable, solvent free, elastic waterproofing and bonding agent enriched with synthetic additives. It has perfect crack bridging ability and excellent adherence to sound surfaces and is resistant to de-icing salts, plant roots and aggressive substances in soil.

AREAS OF USE

For waterproofing;

- Foundations,
 - Basements,
 - Retaining walls,
 - Roofs and north facades of buildings,
 - Balconies and terraces,
 - Wet areas such as bathrooms, kitchens and toilets,
- As a protective coat;
- On shear walls and all types of concrete surfaces in contact with soil against moisture and low degree chemicals,
- As an adhesive and waterproofing agent;
- In fixing polystyrene sheets etc. on concrete surfaces.

SURFACES OF APPLICATION

Concrete, stone, brick, briquet, cementitious screed and plastered surfaces, wooden surfaces, bituminous paper and various plastic surfaces etc.

TECHNICAL DATA

(all technical values are given @ 20°C & 50% relative humidity)

- **Color:** Comp. A: Dark brown/black liquid with thick consistency (fresh mix) Comp. B: Grey powder
- **Unit Weight of Fresh Mix:** 1,18 ± 0,02 kg/lt (@ 20°C)
- **Pot Life:** ~ 2 hours
- **Application Temperature Range:** 5°C to 30°C
- **Service Temperature Range:** -20°C to 80°C
- **Curing Time:** 24 hours
- **Water Contact Duration:** after 48 hours
- **Packaging:** Comp. A: 24 kg (A+B) in 32 kg PE buckets
Comp. B: 8 kg
- **Storage:** 12 months when kept in a dry and closed area protected from freezing temperatures.
- **Performance:** Complies with DIN 18195-2 & TS EN 15814.
- **Properties of dry film:**
 - bulk solid density: (DIN 53479, method A) 1,25 kg/lt
 - thermal resistance: (DIN 52123, item 12) (TS EN 15818)
 - dimensional stability at high temperature, according to
Result: Passed -DIN 23270
 - cold bending behaviour: (DIN 52123, item 13) (TS EN 15813)
 - flexibility at low temperature
Result: Passed
 - resistance to water: (DIN EN ISO 2812) (TS EN 15817)
 - Result: Passed

• Properties of dry film: -continued-

-resistance to rain: (TS EN 15816)

- < 8 hours
Result: Passed

-water tightness: (TS EN 15820)

- 0,075 N/mm²
Result: Passed

-Crack bridging: (TS EN 15812)

- > 2 mm
Result: Passed; the specified 2 mm crack was bridged.

-Pressure loading: (DIN 18195) (TS EN 15815)

- compressive strength
Result: Passed

-reaction to fire classification: (DIN 11925-2) (TS EN 13501-1)

Result: class E

-Ready to use liquid product (decrease in layer thickness):

- desired; <%50, deviation limit ±5
Result: Passed

APPLICATION

Surface Preparation: Surface must be clean, free from loose particles, dust, grease, oil, scale and rust. Grouting should be made with **INKA-HT** to fill the cracks and honeycombs if necessary. Corners and edges of wet areas should be bevelled with a repair mortar. Glass /fiber plaster mesh should be used on large cracks and critical joints during surface preparation. If necessary, component A should be diluted with water at a ratio of 1 : 8 or 1 : 10 and used as a primer on the prepared surface.

Product Preparation: The 24 kg liquid component A has to be mixed thoroughly for 1 min. in order to reach the desired consistency. Then 8 kg of Comp.B (powder) should be slowly added onto 24 kg of Comp.A (liquid) while mixing with a speed controlled hand operated compulsory mixer until the mortar becomes smooth, cohesive and free of lumps and air bubbles.

INKA-IZOFIX can be applied with a brush, roller or a spraygun onto the surface of water contact in 1 or 2 layers (according to the water pressure) after the primer application. An alkali resistant mesh can also be used in between layers.

The pot life of the product is around 120 minutes @ 20°C. This period can change according to the ambient temperature.

For fixing polystyrene sheets etc. the product should first be applied on the main concrete surface and then on the sheets (in a manner of evenly distributed spots). The fixing of the polystyrene sheets should be made 15 to 20 minutes later.

CONSUMPTION

Depending on the surface condition and water pressure, ~1,5 kg/m² per 1 mm thickness.

See next page; **CONSUMPTION***



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Water Absorption Test

Sample Name & no:	Water absorption (%) by weight	Test result's average compared to the control sample
1-IZOFIX applied	0,5	average 0,6 % 79,31 reduction
2-IZOFIX applied	0,7	
3-IZOFIX applied	0,6	
1-CONTROL sample	2,7	average 2,9
2-CONTROL sample	3	
3-CONTROL sample	3	

Adherence to Sound Concrete Test

Sample No	Sample age (days)	Adhesion resistance to flat and sound concrete (N/mm ²)
1	7	1
2	7	1
3	7	0,9
		Average 0,97

Capillary Water Absorption Test

Sample name & no:	Capillary water absorption coefficient (cm/dk) x 10 ⁻⁶	Test result's average compared to the control sample
1-IZOFIX applied	0,71	% 98,93 reduction
2-IZOFIX applied	0,57	
3-IZOFIX applied	0,62	
Average	0,633	
1-CONTROL sample	58,87	
2-CONTROL sample	55,42	
3-CONTROL sample	63,25	
Average	59,18	

İTÜ Test Report No/Date : 373b/ 16.04.2008

CONSUMPTION*

Field of Application	Minimum Application Thickness (dry film)	Minimum Consumption (kg/m ²)
humid surface (non-accumulating ground water)	2 mm	3
temporarily pressurized water (accumulating ground water)	3 mm (mesh reinforced)	4
permanent pressurized water (ground water)	4 mm (mesh reinforced)	5

HEALTH & SAFETY

- Contains bitumen, acrylic polymer dispersion and powders. Incase of contact with skin and eyes, wash with plenty of water.
- Protective mask should be worn during the preparation of the product.
- Tools must be cleaned with water before residues fully cure.
- Mechanical ventilation might be needed when used in small spaces and/or in spaces with insufficient ventilation.

ATTENTION

- Application should be made on the surface of direct water contact. The surface temperature of the application area should be above +5°C and below +30°C and the second coat of the product should be applied perpendicular to the first coat.
- The product should be applied after the primer dries out. (if a primer application is made)
- If the application is going to be made in two coats, the second coat should be applied perpendicular to the first coat.
- Component A should be kept away from freezing temperatures. If accidental freezing occurs, the thawed product should not be used as it will lose its chemical properties
- During subterranean applications, filling should not be started before the product fully cures and before the filling process, proper drainage pipes should be laid and heat insulation panels must be used to cover and protect **INKA-IZOFIX**. (such as XPS)
- Application should not be made on frozen surfaces and/or under direct sunlight.
- Tools must be cleaned with water before residues fully cure. After curing, the residues can be cleaned mechanically or with a thinner.

TECHNICAL SERVICES

Our technical support team is ready to answer all your questions concerning our product line.

For additional information, please contact our headquarters.

Material Safety Data Sheet of this product can be obtained from info@inka.com or from our regional sales representatives.

