

SUPERFLEKS

Elastic Waterproofing Decorative & Protective Slurry

PRODUCT DESCRIPTION

INKA-SUPERFLEKS, is a synthetic polymer/cement based two component, elastic, non-shrink, non-crack waterproofing compound that is used to stop surface water, water leakages and humidity with optional colors.. It can be applied on horizontal and vertical surfaces and will safely work against both positive and negative pressure waterproofing.

AREAS OF USE

Having high adherence ability and a full elastic texture, **SUPERFLEKS** will not be effected from minor deformations that may occur on the concrete surface and thanks to its optional colors, can be safely used as a decorative coat in waterproofing of;

- potable water reservoirs, salt water aquariums and artificial ponds where waterproofing chemicals should be non-toxic and environmentally friendly,
- bathrooms, water tanks and similar wet areas,
- on all types of structural concrete surfaces (as a protective coat against chlorine attacks and carbonation formation),
- terraces, balconies, flat roofs and swimming pools where waterproofing chemicals should be non-toxic and environmentally friendly.

ADVANTAGES

- Ensures perfect adherence.
- Waterproofs the surface at 5 bars min.
- Prevents carbonation.
- Easily prepared and applied.
- Can be applied both with a spray gun or brush.
- Waterproof (has water vapor permeability)
- Added UV resistance thanks to its optional white color.
- Durable and resistant to freeze-thaw cycle.
- Can be safely used in pottable water reservoirs.

TECHNICAL DATA

- **Color:** Comp. A: Milky white liquid
Comp. B: White/Red/Green powder or special order -RAL-
- **Unit Weight of Fresh Mortar:** ~1,6 kg/lt
- **Packaging:** Comp. A: 10 kg PE bin
Comp. B: 20 kg craft paper bag with PE lining
- **Storage:** 12 months when kept in a dry and closed area stacked in loads of maximum 5 bags, away from freezing temperatures
- **Pot Life:** 2 hours (@ 20°C)
- **Standard:** Complies with TSE EN 14891 / April 2013
Type -Normal Cement Based,
Liquid Applied Waterproofing Material (CM)

CONSUMPTION

Depending on the surface condition and application thickness 2 - 5 kg/m².

APPLICATION

Surface Preparation: The cement dosage of the concrete on the -



INKA.3.03.TB.056 30/12/2015/06

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- application area should be 300 kgs minimum. Surface must be clean, free from loose particles, dust, grease, oil, scale and rust. All reinforcements should be removed from the surface and if needed, grouting should be made with a mortar prepared with **INKA-S4** or **INKA-HT**. Corners and edges should be bevelled with **INKA-HT200**. The surface must be wetted prior to application to prevent water loss of the prepared slurry.

Mixing the Mortar: Comp.B (powder) should be slowly added onto 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. The slurry should be left to stand for a while. The product should then be restirred and the prepared mix must be used in 2 hours max

Application: The slurry should be applied evenly on all wetted corners and edges. If the application is going to be made in two coats, the first coat should be applied on a plaster mesh with a brush or trowel whilst the first coat is in a semi-dry state. The thickness should not exceed 2 mm for applications with brush and 5 mm for applications with trowel.

ATTENTION

- The product should never be diluted with water or other chemicals.
- Component A (liquid) 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.
- Application should not be made if ambient and surface temperature are under +5°C or above +30°C. The application area should be protected against direct sunlight, wind and rain for the first 24 hours.
- The surface will become fully waterproof after 7 days and reach its final strength in 14 days following the application. (@ 20°C.)
- Screeding and tile fixing applications should not be carried out before 3 days.(@ 20°C)
- Not suitable for negative waterproofing applications.
- If the application is going to be made on concrete which sits on a steel deck, the concrete should be fully cured. The waterproofing compound may swell from the surface if applied before 21 days of full cure OR if the application area is subjected to rain during application, especially in hot climates.
- Tools must be cleaned with water before residues fully cure.

TS EN 12390-8 Pressurised Waterproofing Test (@ 5 atm's for 72 hours) - equivalent to 50 m's of water depth -

Sample name & no:	Water penetration depth into the sample (mm's)	Test result's average compared to the control sample
1-SUPERFLEKS applied	2	% 97,61 reduction
2-SUPERFLEKS applied	1	
3-SUPERFLEKS applied	2	
1-CONTROL sample	68	
2-CONTROL sample	75	
3-CONTROL sample	75	

İTÜ Test Report No/Date : 373c/ 16.04.2008





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-SUPERFLEKS applied	0,24	
2-SUPERFLEKS applied	0,14	
3-SUPERFLEKS applied	0,20	
Average	0,193	% 99,67 reduction
1-CONTROL sample	58,87	
2-CONTROL sample	55,42	
3-CONTROL sample	63,25	
Average	59,18	

HEALTH & SAFETY

- Contains cement and acrylic dispersion. Incase of contact with skin and eyes, wash with plenty of water.
- Protective mask should be worn during the preparation of the product.
- Mechanical ventilation might be needed when used in small spaces and/or in spaces with insufficient ventilation.

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.

Fast Chloride Penetration Test

Sample No:	Total Transmitted Current (Coulomb)	Test result compared to the control sample
SUPERFLEKS applied	365	% 93 reduction
Control sample	5334	

Water Absorption Test

Sample name & no:	Water absorption (%) by weight	Test results average compared to the control sample
1-SUPERFLEKS applied	0,3	
2-SUPERFLEKS applied	0,4	average 0,43
3-SUPERFLEKS applied	0,6	% 85,17 reduction
1-CONTROL sample	2,7	
2-CONTROL sample	3,0	average 2,9
3-CONTROL sample	3,0	

Adherence to Sound Concrete Test

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

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