



## Two Component, Cement/Polymer Based Flexible Waterproofing Slurry

### PRODUCT DESCRIPTION

**İNKA-KAPSEAL** is a two component, high adherence, cement/polymer based flexible and protective waterproofing slurry resistant to de-icing salts.

### AREAS OF USE

- Interior and exterior walls of water tanks/ potable water reservoirs,
- Interior and exterior walls of swimming pools,
- Interior and exterior walls of basements,
- Exposed surfaces of flatroofs, terraces and balconies,
- Wet areas like bathrooms and toilets,
- Interior and exterior walls of ponds,
- Bridges and retaining walls, (as a protective coat)
- On all types of structural concrete surfaces, (as a protective coat against de-icing salts)
- On all types of structural concrete surfaces, (as a protective coat against chlorine attacks and carbonation formation)
- Repair jobs; to improve adherence and act as a bonding agent.

### ADVANTAGES

- Ensures perfect adherence.
- Waterproofs the surface at 5 bars min.
- Minimizes carbonation.
- Easily prepared and applied.
- Can be applied both with a spray gun or brush.
- Waterproof (has water vapor permeability)
- 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: Grey/White powder
- **Unit Weight of Fresh Mortar:** ~ 2 kg/lit
- **Packaging:** Comp. A: 5 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)
- **Standards:**



TSE EN 1504-2 / 10.04.2008

-BS 6920 Compliance with Potable Water Contact -approved-

### APPLICATION

**Surface Preparation:** The cement dosage of the concrete on the application area should be 300 kgs minimum. Surface must be clean, free from loose particles, dust, grease, oil, scale and rust. Cleaned substrate should be wetted with a brush or sponge.

**Mixing the Mortar:** For applications by brush Comp.B (powder) should be slowly added onto Comp.A (liquid) at a ratio of 4 : 1, while mixing with a speed controlled hand operated compulsory mixer until the

mortar becomes smooth, cohesive and free of lumps and air bubbles. For applications by trowel, liquid component (Comp.A) should be reduced for desired consistency. The prepared mix should be used in 30 to 40 minutes @ 20°C. The working time will shorten at higher temperatures.

**Application:** The substrate should be thoroughly wetted before starting the application. In order to have a homogeneous layer, a bristle brush should be used. The application should be made in two coats which are applied perpendicular to each other. The surface is then finished with a dry soft sponge.

### CONSUMPTION

max. 2 kg/m<sup>2</sup> per coat. Application should be made in two coats minimum. Optimum consumption should be 3 kg/m<sup>2</sup> in two coats.

### ATTENTION

- Ambient temperature should be above +5°C. 4 kg/m<sup>2</sup> should not be exceeded in a single coat to avoid shrinkage cracks.
- 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 under direct sunlight.
- 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.
- Not suitable for negative waterproofing applications.
- Upon request, the version containing sulphate resisting cement can also be manufactured. **-KAPSEAL SD-**

### 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-KAPSEAL applied	3	
2-KAPSEAL applied	2	
3-KAPSEAL applied	5	
<b>Average</b>	<b>3,3</b>	<b>% 95,35 reduction</b>
1-CONTROL sample	70	
2-CONTROL sample	75	
3-CONTROL sample	68	
<b>Average</b>	<b>71</b>	

İTÜ Test Report No/Date : 373d/ 16.04.2008





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### Adherence to Sound Concrete Test

Sample No	Sample age (days)	Adhesion resistance to flat and sound concrete (N/mm <sup>2</sup> )
1	7	1,2
2	7	1,3
3	7	1,5
		<b>Average 1,33</b>

### Fast Chloride Penetration Test

Sample Name	Total Transmitted Current	Test result compared to the control sample
<b>KAPSEAL</b>	2327	<b>% 56,37 reduction</b>
Control sample	5334	

### Capillary Water Absorption Test

Sample name & no:	Capillary water absorption coefficient (cm/dk) x 10 <sup>-6</sup>	Test result's average compared to the control sample
1-KAPSEAL applied	0,05	
2-KAPSEAL applied	0,02	
3-KAPSEAL applied	0,04	
<b>Average</b>	<b>0,037</b>	<b>% 99,94 reduction</b>
1-CONTROL sample	58,87	
2-CONTROL sample	55,42	
3-CONTROL sample	63,25	
<b>Average</b>	<b>59,18</b>	

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### HEALTH & SAFETY

- Contains cement and acrylic dispersion. In case 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](mailto:info@inka.com) or from our regional sales representatives.

