SUPERSEAL

Cement / Polymer Based Two Component Flexible Waterproofing Compound (UV resistant)

PRODUCT DESCRIPTION

İNKA-SUPERSEAL is a two component, cement/acrylic based waterproofing compound which creates a flexible and UV resistant layer on interior and exterior surfaces of concrete.

AREAS OF USE

İNKA-SUPERSEAL ensures perfect adherence and forms an active barrier against salts and gasses in atmosphere when used on:

- Interior and exterior walls of water tanks,
- Interior and exterior walls of basements,
- Interior and exterior walls of swimming pools,
- On all types of structural concrete surfaces (as a waterproof protective coat against de-icing salts)
- Exposed surfaces of terraces and balconies,
- Wet areas like bathrooms and toilets,
- Exposed surfaces of flatroofs, terraces and balconies,
- Flatroofs,
- Precast concrete flumes, (in contact with salt water)
- Concrete surfaces to prevent chloride attacks and carbonation.

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 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 (co-polymer acrylic dispersion)
  Comp. B: White or grey powder (or optional coclors)
  (special mineral based fillers, polymer modified additives and cement)
- **Unit Weight of Fresh Mortar:** ~1,8 kg/lt
- **Packaging:** Comp. A: 8 kg PE bin
  Comp. B: 25 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
- **Standard:**

TSE

TSE EN 1504-2 / 10.04.2008

Systems and Products for Repair and Protection of Concrete Structures
Surface Protection Systems for Concrete
Principle 2 (MC)
Principle 8 (IR)

TS EN ISO 7783-2:2002 WATER VAPOR PERMEABILITY

Decleration	Result	Evaluation
CLASS I	CLASS I	PASSED
As Required in the Standard According to Table 5	Class I S_D < 5m (permeable) Class II 5m < S_D < 50m Class III S_D > 50m (nonpermeable)	

TS EN 1062-3:2010 CAPILLARY WATER ABSORBTION AND WATER PERMEABILITY

Average ($kg/m^2.h^{0,5}$)	Max. Required in the Standard. ($kg/m^2.h^{0,5}$)	Evaluation
under the max. value	0,1	PASSED

TS EN 1542:2001 ADHERENCE TEST BY PULL OUT METHOD

Average (N/mm^2) *Lowest 3 values	Criterias		Evaluation
Higher than required in the standard	Traffic Load	None	PASSED
	Rigid / Flexible	Flexible	
	Reqired in Standard		
	>0,8		

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APPLICATION

Surface Preparation: The cement dosage of the concrete on the application area should be 300 kg minimum. Surface must be clean, free from loose particles, dust, grease, oil, scale and rust. All the cracks and cavities on surface should be grouted with **İNKA-HT** repair mortar. Corners and edges should be bevelled with **İNKA-HT200**. The cleaned surface 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 3 : 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 ~ 40 minutes. The working time will shorten at higher temperatures.

Water should never be added to increase workability.

Application: The substrate should be thoroughly wetted before starting the application. A bristle brush, roller or a spray-gun can be used. In order to have a homogeneous layer, a bristle brush should be used. The application should be madein two coats which are applied perpendicular to each other. The surface is then finished with a dry soft sponge.

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CONSUMPTION

Depending on the surface porosity ~ 1 - 1,5 kg/m^2 per mm for each coat. Application should be made in two coats minimum.

ATTENTION

- 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.
- Ambient application temperature should be between +8°C and 30°C.
- Application should not be made under direct sunlight.
- 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.)
- 4 kg/m^2 should not be exceeded in a single coat to avoid shrinkage cracks.
- Tiling and screeding should not start before 3 days following the application.
- 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.

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.