



# Waterproofing Compound for Plaster, Mortar & Concrete

## PRODUCT DESCRIPTION

**INKA-S1** is a liquid compound for mortar, plaster and screed which reacts with cement/sand mix, waterproofing it by blocking capillaries and pores.

## AREAS OF USE & ADVANTAGES

**INKA-S1** is generally used for the waterproofing of all types of concrete, screed and mortar such as clear-water reservoirs, waste water tanks, tunnels, basements, swimming pools etc. The mortar, screed or concrete prepared with the **S1** mix should be applied in two, three or four coats depending on the level of water pressure.

## TECHNICAL DATA

- **Appearance:** Light yellow opaque liquid
- **Density (@20°C):** 1,05 ± 0,02 kg/lt
- **pH:** alkali
- **Chloride:** nil
- **Storage:** 24 months when kept unopened and away from frost.
- **Packaging:** 6 kg, 30 kg PE bins and 200 kg steel/PE barrels

## DOSAGE

**INKA-S1**, is added to clean mixing water at a ratio of 1 : 10. (**S1 : WATER**). When using wet sand, the ratio must be dropped down to 1 : 8 - 1 : 6 depending on the moisture content.

**INKA-S1** can also be used up to 2 to 4% of the binder. (cement etc.) 2 - 4 kg for every 100 kg of binder. (cement)

## PREPARATION

**Surface preparation:** Concrete surface should be roughened by sandblasting, wire brushing or similar methods. Surface must be clean, free from loose particles, dust, grease, oil, scale and rust. Cracks and porous areas must be repaired with **INKA-HT**. Water infiltrations should be stopped by **INKA-S4** and/or **INKA-S2**. It is advised that prior to the first coat, a slurry prepared with sand - cement and **INKA-SL** mix (1 part SL : 1 part water) should be applied on all surfaces with bristle brush as a primer. All corners should be bevelled with a mortar prepared with **INKA-S1**.

**Preparation of mixing water:** **INKA-S1** should be mixed thoroughly before use. Following this, 1 part of **INKA-S1** and 10 parts of water should be mixed in a clean container. The prepared admixture should be mixed before each use.

**Preparation of mortar (for walls):**  
**-dry mix by volume-**

- **First Coat (1 : 1) :** equal parts of cement and sand (passing through a 3 mm sieve) is mixed by 1 : 1. The mixing water prepared with **INKA-S1** is then added to the mortar.

- **Second Coat (1 : 1,5) :** cement and sand (passing through a 3mm sieve) is mixed by 1 : 1,5. The mixing water prepared with **INKA-S1** is then added to the mortar.

- **Third Coat (1 : 2,5) :** cement and sand (passing through a 3mm sieve) is mixed by 1 : 2,5. The mixing water prepared with **INKA-S1** is then added to the mortar.

**Preparation of mortar (for flooring/screeds):**  
**-dry mix by volume-**

- **First Coat (1 : 1) :** equal parts of cement and sand (passing through a 3mm sieve) is mixed by 1 : 1. The mixing water prepared with **INKA-S1** is then added excessively to acquire a mortar with high fluidity.

- **Second Coat (1 : 2,5) :** cement and sand (passing through a 3mm sieve) is mixed by 1 : 2,5. A small amount of mixing water prepared with **INKA-S1** is then added to acquire a paste like mortar.

## APPLICATION

**Walls:** For the first layer, ready to use mortar is applied at 8 mm thickness with a steel trowel. The application is then repeated for the second layer, 4 to 5 hours later. Last layer should be applied after the setting of the first two layers. The surface must then be softened with a wooden trowel for a good surface finish.

**Floors:** The mortar prepared for the first layer (with excessive mixing water) is laid with a steel trowel at a 10 mm thickness. The mortar prepared for the second layer (in a paste like form) is laid onto the first coat at a 30 mm thickness, tamped vigorously and then smoothed with a wooden trowel for a good surface finish.

## ATTENTION

**Overlapping:** Overlapping of plaster joints must be at least 10 cm's.

The mortar (plaster) should be continued towards the floor for at least 20 cm's for the first layer and 10 cm's for the second layer.

## HEALTH & SAFETY

**INKA-S1** is an alkali admixture therefore rubber gloves and safety goggles should be worn at all times. If contact with eyes occur, rinse immediately with plenty of water and seek medical attention if necessary.

## 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.





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### A. İNKA-S1 usage according to the surface condition:

İNKA-S1/m <sup>2</sup> SURFACE	surfaces with severe water infiltrations		humid surfaces	
	Thickness cm	S1 kg/m <sup>2</sup>	Thickness cm	S1 kg/m <sup>2</sup>
PLASTER	2.0 - 3.0	0,6 - 0,8	1.0 - 1.5	0,3 - 0,5
SCREED	3.5 - 4.5	0,8 - 0,9	2.5 - 3.5	0,7 - 0,8

### B. Rendering details of İNKA-S1 mix on walls and floors:

