

Cemet Based Crystalline Waterproofing Slurry

PRODUCT DESCRIPTION

İNKA-KAPFILL is a cement based, polymer reinforced composition of high grade chemicals used for crystalline waterproofing. **KAPFILL** waterproofs and protects the concrete and its reinforcement from severe water infiltrations by penetrating deep into its surface and crystallizing in the capillaries.

AREAS OF USE

İNKA-KAPFILL can be used on old and new, durable, reinforced concrete surfaces, especially in the negative pressure waterproofing of:

- Water reservoirs,
- Swimming pools,
- Water pipes,
- Basement and shear walls,
- Water treatment plants,
- Underground structures,
- Tunnels,
- Wet areas etc.

İNKA-KAPFILL can also be used as a waterproofing concrete additive in fresh concrete applications.

TECHNICAL DATA

- **Color:** Grey powder
- **Pot Life (@20°C):** 20 minutes
- **Initial setting (@20°C):** 60 minutes
- **Final setting (@20°C):** 90 - 120 minutes
- **Storage:** 12 months when kept in a dry and closed area stacked in loads of maximum 5 bags
- **Packaging:** 25 kg craft paper bag with PE lining
- **Standard:**



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)

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. To obtain the optimum efficiency, capillaries of the surface should be clean and the application has to be made on the exposed concrete surface. The porosities and cracks (caused by segregation) on surface should be grouted with **İNKA-HT** repair mortar. The cleaned surface should be dampened with a brush or sponge.

Caution: The substrate should not be wet prior to application!

Mixing the Mortar: Clean water is taken into a container and **İNKA-KAPFILL** is sprinkled onto the water while mixing with a speed controlled hand operated compulsory mixer until the mortar becomes smooth, cohesive and gains a thick paint like consistency, free of lumps and air bubbles. The mixing ratio of **İNKA-KAPFILL** is 2 : 5. 2 parts water and 5 parts powder.

Pot life of the fresh mix is around 20 minutes @ 20°C, therefore do not prepare more than the amount needed.

The fresh mortar should be stirred occasionally during application. If a loss in consistency is observed, water addition should not be made, instead, the fresh mix should be stirred, applied and finished quickly.

Application: **KAPFILL** can be applied in 3 methods.

1st method

Brush Application: Should be applied as a single coat or two coats by a bristle brush. Second coat must be applied before the first coat dries out. (Spraying / pulverising is another option)

2nd method

Dry Powder Application: Made only on horizontal surfaces on newly laid concrete, **KAPFILL** is sprinkled through a sieve, onto the floated surface just after the surface water has evaporated. The product after picking up the moist and getting wet, should be worked into the surface by a float. OR;

3 kgs of **KAPFILL** per m² should be scattered onto the lean concrete surface evenly.

3rd method

As a concrete additive: Should be added into fresh concrete.

CONSUMPTION

Brush Application: Depending on surface condition and application method; 0,75 – 1,50 kg/m². Best results are taken with 2 coats.

Dry Powder Application: 3 kgs per m²

As a concrete additive: Should be used 2% by weight of cement of the concrete. An additional mix of 3 minutes in the truckmixer is sufficient for an homogenous mix.

ATTENTION

- **KAPFILL** applied surfaces should be kept humid for at least 5 days. A wetted sack cloth to cover the surfaces or a curing compound can be used.
- The application area should be protected against direct sunlight, wind and rain for the first 24 hours.
- Ambient application temperature and surface temperature should be in between +5°C and 35°C.
- Application should not be made on frozen surfaces.
- Tools must be cleaned with water before the residues fully cure.
- The cured product should be removed mechanically.

HEALTH & SAFETY

- Contains cement. As it is an irritant material in case of contact, wash with plenty of water.
- Protective mask should be worn during the preparation of the product.

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.