

Non-shrink, Self-leveling Grouting Mortar

PRODUCT DESCRIPTION

INKA-HG is a cementitious, ready to use polymer modified self-leveling non-shrink grouting mortar with high initial and final strengths.

USES

INKA-HG is successfully used in fixing:

- Steel constructions,
- Concrete anchors,
- Machine foundations,
- Foundation plates,
- Prefabricated compound connections,
- Heavy construction equipment guide rails,
- Tank and reservoir piers... etc.

ADVANTAGES

- Ensures high initial and final strengths.
- Shows perfect flow characteristics with low water/cement ratios.
- Balanced expanding ability eliminates shrinkage.
- Its strong, homogenous watertight structure gives durability and resistance against mineral oils.
- Protects reinforcement thanks to its watertight structure.
- Ensures perfect adherence to sound steel and concrete surfaces preventing corrosion.
- Its non-corrosive nature makes it possible to be used just about anywhere.
- Smooth and sound surfaces can be easily obtained thanks to the mixed design.
- Adjustable consistency makes it easier to fill detailed formwork without making any significant change on initial and final strengths.
- Its strong and specially selected mineral aggregate base gives perfect durability against extreme temperatures. (added fire resistance)

TECHNICAL DATA

- **Colour:** Grey powder
- **Unit Weight of Fresh Mortar:** ~2,2 kg/lt
- **Expansion:** 0,25 - 0,50% after 28 days
- **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 1504-3/ 10.04.2008

Concrete repair product for structural repairs, PCC
3.1 Mortar application by hand/R4/Reinforced and
Unreinforced

- ASTM C1107 Type B and C

APPLICATION

Surface preparation: Concrete and metal surfaces should be clean, free from oil, grease, rust and all loosely adhering particles



including metal and concrete. Absorbent surfaces should be saturated with water thoroughly. This wetting process should be made 24 hours before the application and should be repeated prior to the application with a damp sponge.

Mixing the product: The water/mortar ratio is 1 : 8. **INKA-HG** is mixed with a slow speed compulsory mixer. 80% of the mixing water should be poured into the container and **INKA-HG** should be added slowly while mixing. The rest of the mixing water is added according to the level of flow (consistency) desired. For applications above 20°C, additional mixing water might be needed for desired flow.

Additional water use for desired flow in hot weather conditions will reduce the final strength of the mortar. Therefore 3,3 kg's of mixing water should not be exceeded even in extreme (hot) weather conditions.

Application: The fresh mortar temperature must be below 30°C. Usually a 3 to 5 minute mixing should be enough to have a homogenous, well mixed mortar. Mortar should be poured immediately after mixing from one side, in order to allow the air displaced by the mortar to escape.

Application Thickness:

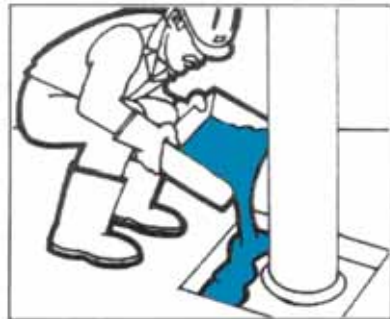
30 to 40 cm thick pours can be made in a single application. For thicker applications, water-tightness of the moulds and the strength of the fittings should be ensured.

CONSUMPTION

~ 1900 kgs of **INKA-HG** (powder) for 1 m³.

-compressive strengths @ 20°C with 10cm x 10cm x 10cm moulds
-flexural strength @ 20°C with 160mm x 40mm x 40mm moulds

compressive strength 1 day (N/mm ²)	compressive strength 28 days (N/mm ²)	flexural strength 28 days (N/mm ²)
> 40	> 80	> 14
modulus of elasticity		~ 35.000



**ATTENTION**

- Water should never be added to the product after the mixing process is completed. (to increase workability)
- Do not use where environmental and surface temperature is below +5°C and above +35°C.
- The remaining product should be kept closed airtight in its original packaging.
- For outside applications, the area should be protected against direct sunlight, wind, rain and freezing temperatures.
- Tools must be cleaned with warm water before the residues fully cure. The cured product should be removed mechanically.

HEALTH & SAFETY

- Contains cement. As it is an irritant material incase 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.

