

High Performance, Non-shrink / Tixotropic Repair & Grouting Mortar

PRODUCT DESCRIPTION

İNKA-HGT, is a ready to use cementitious tixotropic, non-shrink grouting and structural repair mortar reinforced with fibers and specialty chemicals.

AREAS OF USE

İNKA-HGT, is successfully used in the grouting of:

- Tie rod holes,
 - Steel constructions,
 - Concrete anchors,
 - Machine foundations,
 - Foundation plates,
 - Guide rails for heavy construction equipment,
 - Precast panel joints,
 - Tank and reservoir piers... etc.
- where non-shrink and high adherence properties are required.
- It is also used in beveling of corners prior waterproofing applications.

ADVANTAGES

- Ensures high initial and final strengths.
- Tixotropic - non sagging.
- 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.
- Its strong and specially selected mineral aggregate base gives perfect durability against extreme temperatures. (added fire resistance)

TECHNICAL DATA

- **Color:** Grey powder
- **Unit Weight of Fresh Mortar:** ~ 2,1 kg/l
- **Storage:** 12 months when kept in a dry and closed area stacked in loads of maximum 5 bags
- **Packaging:** 20 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 surface should be in a rough structure and both concrete and metal surfaces should be clean, free from oil, grease, rust and all loosely adhering particles. Absorbent surfaces should be saturated with water thoroughly. The wetting process should be made 24 hours prior to the application. The surface should be dampen just before the application once more and the excess water should be removed with a sponge. Absorbant moulds should also be saturated with water.

Mixing the product: The water/mortar ratio is 1 : 8. **İNKA-HGT** is mixed with a low speed compulsory mixer. 80% of the mixing water should be poured into the container and **İNKA-HGT** should be added slowly while mixing. The rest of the mixing water is added according to the level of flow (consistency) desired. The mixing process should be continued until the mixture is free from all lumps and air bubbles. The mortar should be left to rest for 5 minutes after the mixing process.

For applications above 25°C, additional mixing water might be needed for desired flow.

Additional use of mixing water for desired flow in hot weather conditions will reduce the final strength of the mortar. Therefore 3.5 kg's of mixing water should not be exceeded even in extreme (hot) weather conditions. The fresh mortar temperature must be below 30°C.

Do not use at temperatures below +5°C.

Application Thickness:

Up to 40 - 50 mm thickness @ vertical surfaces can be reached without sagging. (consistency should be well adjusted)

CONSUMPTION

~ 1900 - 2000 kgs of **İNKA-HGT** 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)
> 30	> 50	> 10
modulus of elasticity		~ 38.000





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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.