

Waterproofing Admixture for Concrete

PRODUCT DESCRIPTION

INKA-BG, is a modified lignosulphonate based waterproofing admixture which also promotes the plasticizing properties of fresh concrete.

AREAS OF USE

INKA-BG is especially used as an admixture in fresh concrete of,

- Large scale water dams, reservoirs, sets;
- Sewage systems and waste water structures;
- Waterways, diversion tunnels;
- Water tanks, pools, swimming pools etc., to acquire a watertight concrete structure. (both in structural and mass concrete)

ADVANTAGES

INKA-BG;

- Enhances workability;
- Helps increase sensitivity to vibration enhancing placement;
- Provides additional strength and durability;
- Reduces shrinkage;
- Protects reinforcement thanks to its waterproofing features and non-chloride containing chemical structure.

TECHNICAL DATA

- **Appearance:** Brown liquid
- **Density (@20°C):** 1,09 kg/l \pm 0,02 -ISO 758
- **pH:** 5,0 - 8,0
- **Total Chloride Ion Content:** max. 0,1 -EN 480-10
- **Equivalent Sodium Oxide as Na₂O%:** max. 5% -EN 480-12
- **Storage:** 12 months when kept unopened and away from freezing temperatures
- **Packaging:** 30 kg PE bins and 200 kg steel/PE barrels & in bulk
- **Complies with:**
TS EN 934-2 Ç.9 ; Ç.2

DOSAGE & APPLICATION

INKA-BG is used 0,5% by weight of binder, added directly into the mixing water before the aggregates. It can also be added into the fresh concrete (min. 3 min.'s of mixing time should be acquired in the transmixer before discharge). Known procedures should then be followed for the concrete pour. **INKA-BG** is compatible for all cement types including sulphate resisting cement.

Overdosage: Optimum dosage is 0,5% of binder. (1,5 kg for 300 kg binder) When used at higher dosages, setting times will be delayed and excessive air-entrainment will occur. In such a case, in order to stop water loss, (dehydration) necessary curing procedures should be carried out.

ATTENTION

- When producing a concrete with **INKA-BG**, the admixture should never be added and mixed with primitive mixing methods.

- **INKA-BG** enhances the workability of fresh concrete. Therefore when used in combination with other types of workability enhancing admixtures, preliminary lab. tests and on-site trials should be carried out to set the correct dosage.
- When **INKA-BG** is added to the concrete mixer on-site, in order to achieve a homogenous dispersion, mixing time should be prolonged. (around 5 minutes)
- Aggregates should be granulometric and the mix design should contain enough fine material to ensure water tightness.
- Continuous pours should be made as much as possible to reduce joints and PVC based water-barriers should be placed into the cold joints.
- Before actual field use, laboratory and field tests should be carried out. Should there be a change in cement type or composition and/or a change in aggregate type or source, additional tests must be carried out for admixture compatibility. Our Q.A has to be informed in such a case for the necessary product upgrades.

HEALTH & SAFETY

- Protective gloves, goggles and clothing should be worn.
- Wash skin and eyes with plenty of water if contact occurs and seek medical attention if necessary.
- Do not eat or drink near the product and do not use contaminated hands when drinking and eating.

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.

