

Polycarboxylate Based, Self-Compacting & Self-Consolidating Concrete Additive

PRODUCT DESCRIPTION

INKA- BSC/HB is a polycarboxylic ether based high range water reducing 3rd generation superplasticizer offering long periods of workability with improved initial and final strengths.

AREAS OF USE

INKA- BSC/HB is generally used;

- In the production of high performance concrete,
- In the production of self-compacting and self-consolidating concrete,
- In production of ready mix concrete,
- In production of waterproof concrete with high compactness,
- In production of concrete slabs, columns and beams with intense/detailed reinforcement,
- At high temperatures to retain workability,
- To provide a productive working environment with reduced w/c ratios and improved workability.

INKA- BSC/HB is especially used;

- To allow pumping over long distances,
- To produce sound, voidless and durable surfaces with improved abrasion resistance (such as airports, industrial surfaces etc),
- To produce extra high performance concrete in the production of structures like bridges and viaducts by reducing w/c ratios.

TECHNICAL DATA

- **Appearance:** Translucent brown liquid
- **Density (@20°C):** 1,10 ± 0,03 kg/lit -ISO 758
- **pH:** 4,0 - 7,0
- **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
- **Standard:**



TSE EN 934-2 / 10.04.2013

High range water reducing / super plasticizer concrete admixture
TS EN 934-2 T. 3.1, 3.2 (BSC/HB-VP01)

- **Complies with:**
TS EN 934-2 T.11.1, 11.2 (BSC/HB-VP05)

ADVANTAGES

- Gives extra high initial strength thanks to the significant amount of water reduction in mixing water,
- Provides perfect slump retention at hot climates,
- Increases frost resistance at cold weather conditions,
- Stops shrinkage thanks to significant amount of water reduction,
- Eliminates the need to use vibrators both for self compacting concrete and high flow concrete.

DOSAGE

For free flowing concrete and concrete in plastic state, **INKA- BSC/HB** is used 0,2 to 1% by weight of binder. Optimum dosage should be assessed after on site trials.

For Self-Compacting and Consolidating concrete, **INKA- BSC/HB** should be used 1 to 2% by weight of binder.

APPLICATION

The water of the fresh mix is reduced by 30 to 50% depending on the dosage of **INKA- BSC/HB**.

In order to achieve the best flowing effect and to prevent the admixture from being absorbed by dry aggregate, 70% of the mixing water should be added into the mix first.

The rest of the mixing water together with the admixture should then be added into the mix. (2- 3 minutes later)

ATTENTION

- **BSC/HB** is mainly designed for high performance concrete therefore it should not be used in concrete with low binder content. Best results are achieved with binder content of no less than 350 kg per m³.
- 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.