



PRODUCT DESCRIPTION

İNKA- BSC/1010 is a polycarboxylic ether based high range water reducing superplasticizer specifically engineered for high performance concrete. Modified to achieve low w/c ratio's together with extended workability, this new generation plasticizer enables improved initial and final strengths.

AREAS OF USE

İNKA- BSC/1010 is generally used;

- in the production of high performance concrete above concrete class C30- 35,
- in the production of self-compacting and self-consolidating concrete,
- in production of ready mix concrete,
- in production of watertight concrete with improved compactness,
- in production of concrete slabs, columns and beams with intense/detailed reinforcement,
- to achieve extended workability with min. slump loss at high environmental temperatures (**İNKA- BSC/1010-S**);
- to provide a flawless working environment with improved workability even at low w/c ratios.

İNKA- BSC/1010 is especially used;

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

TECHNICAL DATA

- **Appearance:** Brown liquid
- **Density (@20°C):** 1,07 ± 0,02 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
EN 934-2: T. 3.1 / 3.2 (BSC/1010)

- **Standard Compliance:**
EN 934-2: T. 11.1 / 11.2 (BSC/1010-S)

ADVANTAGES

- Gives high initial strengths thanks to the significant amount of water reduction in mixing water.
- Provides perfect slump retention at hot climates. (**İNKA- BSC/1010-S**)
- Protects the concrete in cold weather by shortening the setting times thanks to its extreme water reduction capability.

- Increases frost resistance at cold weather conditions due to reduced water/binder ratios.
- Enabling voidless and cohesive concrete production results in durable, everlasting structures when compared with reference concrete.
- 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 S4 - S5 slump classes, (slump concrete)

İNKA- BSC/1010 is used 1 to 1,5% by weight of binder. (binder= cement, fly ash, silicafume etc.)

Optimum dosage should be assessed after on site trials as the robustness of the additive may vary according to different types of cement and aggregates.

For Self-Compacting and Consolidating concrete,

İNKA- BSC/1010 should be used 1,6 to 2% by weight of binder. Site trials should be carried out for dosages higher than 2%.

APPLICATION

The water of the fresh mix is reduced by 30 to 50% depending on the dosage of **İNKA- BSC/1010**.

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 **İNKA- BSC/1010** should then be added into the mix. (2- 3 minutes later)

ATTENTION

- **BSC/1010** 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.