

Water Reducing Plasticizer Chemical Admixture

PRODUCT DESCRIPTION

INKA-BV/MR, is a modified hydroxylated carboxylic acid based midrange plasticizer with multi-dosage option. It acts as a water reducing agent offering higher ultimate strengths with extra workability.

AREAS OF USE

INKA-BV/MR is used to produce

- Concrete with high flow property without the need of surface finishing,
- Concrete with extended workability as a superplasticizer at high dosages and/or as an above average water reducer at lower dosages,
- Concrete with reduced w/b ratios at the same workability,
- Vibration sensitive, easily/perfectly placed & watertight concrete.

TECHNICAL DATA

- **Appearance:** Brown liquid
- **Density (@20°C):** 1,16 ± 0,03 kg/lt -ISO 758
- **pH:** 4,0 - 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:** 35 kg PE bins and 250 kg steel/PE barrels & in bulk
- **Standard:**



TSE EN 934-2 / 10.04.2013

Water reducing / Plasticizing admixtures
EN 934-2: T. 2 (BVMR)

- **Complies with:**
ASTM C494-81 Type A
ASTM C494-81 Type G
EN 934-2: T. 11.1 ; 11.2

DOSAGE

INKA-BV/MR, is used 0,5 to 1,5 % by weight of binder.

Dosage above 1,2 % may result in retardation. Therefore optimum dosage should be assessed after on site trials.

APPLICATION

INKA-BV/MR, in general, should be added to concrete during mixing with the last portion of the mix water in order to ensure even dispersion of the admixture throughout the concrete. This way its plasticizing effect will become better amplified.

The admixture should not be added directly to the dry cement or aggregates.

In ready mix concrete plants, it's best to add **BV/MR** right before the pouring process followed by a 2 to 3 minute mix.



For ready mix concrete: w/b ratio should be fixed and **BV/MR** should be added according to the desired flow.

For production of high strength concrete: The water of the fresh mix is reduced by 10 to 20% depending on the dosage of **INKA-BV/MR**.

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

- Workability will be substantially increased and problems may occur if overdosed. This increase will be amplified in cold weather conditions. In case of an accidental overdose, stripping the formwork should be made under careful supervision and known procedures should be carried out (such as: protecting the area from wind, frost and direct sunlight; covering the area with damp sackcloth and/or using a curing agent) to protect the fresh concrete -its hydration process- until its setting is complete.
- 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.

