



BETONAC[®]-1055-A

HIGH RANGE WATER REDUCING SUPERPLASTICISER FOR READY MIX CONCRETE

DESCRIPTION

BETONAC[®]-1055-A is a high range (Polycarboxylate Ether) based superplasticizer used for producing ready mix concrete to reduce water while maintaining workability and average slump retention, it also helps to achieve early compressive strength and hence increasing the life of concrete flowability.

USES

BETONAC[®]-1055-A is designed to produce ready mix concrete structures of heavy fine grained concrete with different strength grades and different levels of flowability including self-levelling concrete.

ADVANTAGES

- ◆ **In-situ Piling** - easy removal of formwork without causing problems of any kind.
- ◆ **Improved Workability** - speeds placing of concrete and construction works.
- ◆ **Improved Cohesion** - reduces bleeding and segregation where poor sand grading is unavoidable.
- ◆ **Easy Pumping** – due to improved workability and cohesion and extended setting time.
BETONAC[®]-1055-A also provides protection against any delays and stoppages.
- ◆ **Cement Saving** - reduces the quantity of cement in the concrete mix by 17% while at the same time maintaining the ultimate strength and durability of structures.
- ◆ **Increase Compressive Strength**— by 17% (min.)
- ◆ **Water reducing** — about 16-22%

STANDARD

BETONAC[®]-1055-A (used in hot seasons complies) with ASTM C 494, Type F or G
(ASTM C 494 requirements: Type F: water reducing high range admixture, Type G: water-reducing, high range, and retarding admixture)



APPLICATION

The correct quantity should be carefully measured by a dispenser. BETONAC®-1055-A should be added at the final mixing sequence with 25% of the mixing water.

Very Important Note : After adding this additives to the concrete mixture (at the final mixing sequence), NO water should be added afterwards because it will affect the compressive strength negatively .

Dosage

BETONAC®-1055-A is normally added at the rate from 0.8 % to 1.8 % (we recommend 1%) of cement weight, depending on the retardation or workability required.

Longer setting times or higher temperatures require higher addition rates. Conversely, the addition rate will be lower for shorter retardation. **Trial mixes are recommended.**

Overdosing results in more retardation and higher workability. Segregation might occur in some cases, please consult our specialized Lab. Engineer in this case.

Curing

Concrete must be prevented from drying out once additives are used. We strongly recommend using sufficient curing compound to avoid concrete dryness.

Compatibility

BETONAC®-1055-A is generally compatible with all other BETONAC® admixtures if added separately to the mix.

TECHNICAL DATA

Appearance: Transparent Colorless Liquid

Calcium Chloride: Nil

Solid Particles content : 50±1 %

Density : 1.06 ±0.02 gm/ml

Setting time: Initial and final setting time depend on temperature, cement type and dosage used.

Packaging: BETONAC®-1055-A is packed in 220 kg drums or 1100 kg IBC's

Storage / Shelf life: BETONAC®-1055-A has a minimum shelf life of 1 year if stored in originally sealed packaging. It should not be exposed to direct sunbeam and protected against frost.

Legal notes

Whilst information and/or specification contained herein is to the best of our knowledge true and accurate, and is based on many years of experience, we cannot accept any liability either directly or indirectly arising from the use of our products, whether or not in accordance with any advice, specification or recommendation given by us, as we have no direct or continuous control over how or where our products are applied.

OUR PRODUCTS are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale 16.08.2011