

YASH SUPER PLAST



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High range water reducing admixture with workability retention properties

Description

YASH SUPER PLAST is formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

YASH SUPER PLAST has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

Applications

- + Long distance and hot weather concrete deliveries.
- + Where high workability retention and retardation are of prime importance.
- + To produce high quality concrete of improved durability and water tightness.

Advantages

- + Higher strength with same cement content.
- + Minimizing segregation problems by improving cohesion.
- + Excellent slump retention properties.
- + Improved workability reduces placing and compaction problems.
- + Cold joints can be avoided by extending initial and final concrete setting time.
- + Saving cement without affecting strength specifications.
- + More durable concrete by considerable reduction in permeability.

Compatibility

YASH SUPER PLAST can be used with all types of Portland cement and cement replacement materials. YASH SUPER PLAST is compatible with other YASH admixtures used in the same concrete mix.

If more than one type of admixture will be used in the concrete mix, they must be dispensed to the concrete separately.

Standards

YASH SUPER PLAST complies with ASTM C494, Type G, and IS9103:1999.

Technical Properties:

Colour	: Brown liquid
Specific gravity	: 1.16 ± 0.02 @ 27°C
Chloride content	: BS5075 Nil
Air entrainment	: Typically less than 2% additional air is entrained above control mix at normal dosages

Method of Use

YASH SUPER PLAST should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of YASH PLAST 33 to the concrete mix.

Dosage

The guidance dosage is between 0.5 - 1.2 litre/100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Effects of Over Dosage

YASH SUPER PLAST over dosage will cause the following:

- + Significant increase in retardation.
- + Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

Setting Time

Although the setting time is dependent on the dosage of YASH SUPER PLAST, the following factors should be considered

- :
 - i. Retardation is increased with a lower level of tricalcium aluminate in the cement.

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- ii. Lower temperatures will delay the setting time.
- iii. SRC cement gives higher retardation level than ordinary cement.
- i. Using more than one type of admixture in the same concrete mix could affect the sitting time.
- ii. Retardation level is increased when cement replacement materials are used in the concrete mix.

Cleaning

YASH SUPER PLAST can be washed immediately by cold water.

Packaging

YASH SUPER PLAST is available in 250 kg and 1000 litre bulks supply.

Storage

YASH SUPER PLAST has a shelf life of 12 months from date of manufacture if stored at temperatures between 2° C and 50° C. If these conditions are exceeded, YASH Technical Department should be contacted for advice.

Cautions

Health and Safety

YASH SUPER PLAST is not classified as hazardous material. YASH SUPER PLAST should not come into contact with skin and eyes. In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

Fire

YASH SUPER PLAST is nonflammable.

More from YASH CONCHEM Products

A wide range of construction chemical products are manufactured by YASH which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

Note : We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, Yash cannot accept any liability either directly or indirectly arising from the use of Yash products, whether or not in accordance with any advice, specification, recommendation or information given by us.