

INDENIUM 333 : Polycarboxylate Ether (New Generation High Range Superplasticizer)

Description :

INDENIUM 333 is a ready-to-use high range water reducing concrete admixture emanating from the state-of-the-art Polycarboxylate Technology. **INDENIUM 333** is New Generation Superplasticizer containing carboxylic (COOH) group instead of sulphonic (SO₃H) as in case of Melamine or Naphthalene Formaldehyde Sulphonates.

The power packed (COOH) moiety is absorbed on hydrating cement grain in much greater amount than conventional superplasticizers, resulting in excellent fluidity and yielding a Rheoplastic and Self Compacting Concrete (SCC) at low water-cement ratio.

Due to Steric-Hindrance effect imparted by ether-function hydrophilic chain attached to polymer, superior slump (workability) retention is achievable by use of **INDENIUM 333**.

Advantages :

- Cohesive and non-segregating concrete mixtures.
- Reduced water content for a given slump.
- Small dosage.
- Very suitable for High Strength Concrete (M-40 and above)
- Increased compressive and flexural strength of concrete at all ages.
- Linear water reduction through out the recommended dosage.
- Faster setting time and strength development.
- Faster recycle of Formwork owing to accelerated early strength development.
- More than 35% water reduction in high performance concrete.
- Close textured fair-faced smooth concrete.
- Rheoplastic, Self Leveling and Self Compacting Concrete.
- Long workability and extremely good slump retention.

Technical Service :

Ruia Chemicals Pvt. Ltd. is an ISO 9001-2008 Certified organization manned by Polymer Chemists, Concrete Technologists and Material Scientists responsible for maintaining consistency and quality of products by Laboratory and in-process tests to satisfy our valued customers.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or legal responsibility on our part including third party's intellectual property rights especially patent rights. The customer has to verify by testing the performance and suitability of the product described herein. Reference to Trade names used by other companies is neither a recommendation nor a prohibition. The customer is free to use any trade product, if found suitable.

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Technical Specification :

Appearance	:	Beige Coloured Liquid
Solubility in water	:	100 %
Specific Gravity	:	1.13 ± 0.03
pH Value	:	6.5 ± 1
Chloride Content (%)	:	Complies with BS 5075

Standard :

Confirms to IS : 9103-1999 and ASTM C 494/C. 494M

Dosage :

0.2 to 1.2 Kg / 100 Kgs. cementitious material for most concrete mixes using typical concrete ingredients. However, for silica fume concrete, the dosage may fall outside recommendation and site trials, in case of critical workability and setting time parameters, are pre-requisites to fix optimum dosage.

To be mixed with water and added to cement aggregate mixture.

Packing :

25 Kgs., 225 Kgs.

Material Safety Data :

Non toxic and non flammable.

Avoid skin contact as far as possible. On contact, wash the affected area with water.

Store under shed, away from heat source.

Shelf Life :

Best before 12 months.

Product Bulletin Code : OC: 001