

Retarding superplasticising concrete admixture

DESCRIPTION

DUCONMIX RSP 600 is a single-component, retarding superplasticising concrete admixture based on sulphonated naphthalene polymers. It is designed to reduce water demand, improve workability and extend setting time while providing excellent slump retention, making it suitable for ready-mix, pumped and mass concrete applications.

RECOMMENDED USE

- Ready-mix concrete
- Pumped concrete
- Long-distance concrete transportation
- Hot weather concreting
- Mass concrete pours
- Concrete containing fly ash, slag and other pozzolans
- High-workability structural concrete

FEATURES AND BENEFITS

- Single-component liquid admixture
- Extended slump retention
- Reduces water demand
- Improves workability and pumpability
- Reduces segregation and bleeding
- Enhances strength and durability
- Improves concrete finish
- Reduces thermal cracking in mass concrete

PRODUCT INFORMATION

Standard Compliance	ASTM C494 Types B, D & G; EN 934-2; IS 9103
Chemical Base	Sulphonated naphthalene polymer
Recommended Dosage	0.3–1.5% by weight of cement
Water Reduction	Up to 30%
Slump Retention	>2 hours @ 25°C
Chloride Content	Chloride-free
Compatibility	all cement types
Packaging	5, 10, 20 & 250 kg
Shelf Life	12 months

APPLICATION PROCEDURE

General

DUCONMIX RSP 600 shall be used in accordance with recommended application guidelines and should only be added by trained and qualified personnel.

Preparation

Ensure all concrete constituents are accurately batched. Determine the optimum dosage through site trial mixes based on the required workability and setting characteristics.

Mixing Procedure

DUCONMIX RSP 600 is supplied ready for use and shall be added to the concrete together with the mixing water. For optimum performance, add the admixture after 50–70% of the mixing water has been introduced into the mixer. Do not add directly to dry cement or aggregates. Continue mixing until a uniform and homogeneous concrete mix is obtained.

Placing

Place, compact and finish the concrete in accordance with good concreting practice. Proper curing is essential, particularly in hot, dry or windy conditions, to achieve optimum performance.

Compatibility

Compatible with all cement types and supplementary cementitious materials. Trial mixes are recommended before use with other admixtures.

Precautions

Wear suitable PPE during handling, avoid contact with eyes and skin, do not exceed the recommended dosage without prior trials, reseal containers after use, and refer to the SDS/MSDS before use.

Statement of Responsibility (Disclaimer)

The technical information and application advice are based on present state of our best scientific and practical knowledge. As the information herein of a general nature, no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.