

PCE-based retarding superplasticiser

DESCRIPTION

DUCONMIX RSP PCE 800 is a single-component, modified polycarboxylate ether (PCE)-based retarding superplasticiser designed for ready-mix and site-batched concrete. It provides high water reduction, extended workability, excellent slump retention and enhanced durability while maintaining controlled setting characteristics for high-performance concrete applications.

RECOMMENDED USE

- Ready-mix concrete
- Pumped concrete
- Long-distance concrete transportation
- High-performance concrete
- Congested reinforcement and complex formwork
- Mass concrete
- Concrete requiring >20% water reduction

FEATURES AND BENEFITS

- High-range water reduction
- Extended slump retention
- Improves workability and pumpability
- Reduces segregation and bleeding
- Enhances strength and durability
- Good dispersion in high-fines concrete
- Improves concrete surface finish

PRODUCT INFORMATION

Standard Compliance	ASTM C494 Types B, D & G; EN 934-2; IS 9103 DA
Chemical Base	Modified polycarboxylate ether (PCE)
Recommended Dosage	0.3–1.5% by weight of cement
Water Reduction	>20%
Slump Retention	>3 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 PCE 800 shall be used by trained personnel. Optimum dosage shall be established through site trial mixes.

Preparation

Ensure all concrete constituents are accurately batched. DUCONMIX RSP PCE 800 is supplied ready for use.

Mixing Procedure

Add the admixture together with the mixing water. For optimum performance, introduce DUCONMIX RSP PCE 800 after approximately **50–70%** of the mixing water has been added. Do not add directly to dry cement or aggregates. Continue mixing for a minimum of **60 seconds** after addition in forced-action mixers until a homogeneous concrete mix is obtained.

Placing & Curing

Place, compact and cure the concrete in accordance with good concreting practice. Adequate curing is recommended, particularly under hot, dry or windy conditions.

Compatibility

Compatible with lignosulphonate and carboxylic acid-based admixtures, as well as fly ash, silica fume, metakaolin and GGBS. Do not use in conjunction with melamine- or naphthalene-based admixtures in the same mix.

Precautions

Wear suitable PPE during handling and application. Avoid contact with eyes, skin and foodstuffs. Do not ingest the product. Reseal containers immediately after use and store under recommended conditions. Keep out of reach of children. 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.