

RheoCem-Retain 2316 PCE Based Concrete Admixture

Technical Data Sheet

Product Description

RheoCem-Retain 2316 is a PCE based superplasticiser built for concrete that must stay workable on the move. It combines high water reduction with controlled retardation, holding slump through long transit and hot weather so that M30–M50 mixes reach site ready to place, without re-tempering.

Typical Properties

Property	Value
Form	Liquid
Chemical Base	Polycarboxylate Ether (PCE)
Appearance	Brown to light brown liquid
Specific Gravity	1.07 – 1.11 @ 25 °C
pH Value	6.0 – 8.0
Solid Content	± 1.0 %
Chloride Ion Content	Nil (as per IS 9103)
Compliance Standard	IS 9103:1999
Pack Size	220 kg HDPE drum

Advantages

- Holds workability for 90–180 minutes without water addition (mix-dependent)
- Steady performance in hot weather and on long hauls
- Eases pumping into congested reinforcement
- Reduces water demand for better long-term durability
- Chloride-free – suitable for reinforced and prestressed concrete

Where to Use & Compatibility

- Ready-mix concrete needing extended workability, M30–M50
- Long-distance transit of 60 to 120 minutes
- Hot-weather concreting with rapid slump loss
- High-rise pumped concrete
- Fly ash, GGBS and silica fume blends
- Compatible with OPC, PPC and PSC cements. Do not pre-mix with SNF or melamine based admixtures.

Directions for Use

- **Dosage:** 0.6 – 1.2 % by weight of cementitious material.
- Introduce with the mixing water (not to dry cement) and mix for at least 60 seconds.
- Higher dosage within the range extends slump retention; overdosing may delay setting.
- Fix the dosage through trial mixes with the actual cement, SCMs and aggregates.

Storage & Shelf Life

- 12 months from the date of manufacture in original, sealed containers. Store in shade between 5 °C and 40 °C; protect from direct sunlight and freezing. Stir before use if settlement is observed.

Health & Safety

Wear gloves and safety goggles while handling. In case of eye contact, rinse with plenty of clean water and seek medical advice. Refer to the Safety Data Sheet for full information.

Disclaimer: Values shown are typical, not a specification. The information given is based on our laboratory tests and practical experience and is offered in good faith. As site conditions and materials are beyond our control, users should carry out trials to confirm suitability. Cemvera Industries reserves the right to change product specifications without notice.