

PRODUCT DATA SHEET

CLASSICRETE 40 HE

High Range Water Reducing / Superplasticizing Concrete Admixture

DESCRIPTION

CLASSICRETE 40 HE is a high-performance superplasticizing concrete admixture designed to provide powerful water reduction, improved workability and high early-strength development in concrete and mortar.

The product is intended for concrete applications where high early strength, excellent flowability and efficient water reduction are required.

USES

- Pre-cast concrete
- Fast-track concrete
- In-situ concrete requiring fast stripping time
- Self-Compacting Concrete (SCC)

CHARACTERISTICS / ADVANTAGES

- Pronounced increase in early strength development, supporting economical stripping times for pre-cast and in-situ concrete.
- Powerful water reduction, contributing to high density, high strengths and reduced water permeability.
- Excellent plasticizing effect for improved flowability, placing and compacting behaviour.
- Reduced energy requirements for steam-cured pre-cast elements.
- Suitable for the production of Self-Compacting Concrete (SCC).
- Improved shrinkage and creep behaviour.
- Reduced closure times for repair works on roads and runways.
- Does not contain chlorides or other ingredients intended to promote corrosion of steel reinforcement; suitable for reinforced and pre-stressed concrete.

APPROVALS / STANDARDS

The uploaded reference states compliance with ASTM C494; Type F for its corresponding product. For CLASSICRETE 40 HE, this designation should only be printed after product testing/certification confirms compliance.

PRODUCT INFORMATION

Chemical Base	Aqueous solution of modified polycarboxylates
Packaging	Packaging options to be confirmed for CLASSICRETE 40 HE. Suggested commercial formats may include jerry cans, drums and IBCs.
Shelf Life	Reference product: 12 months minimum from date of production when stored properly in original unopened packaging. Confirm the shelf life for CLASSICRETE 40 HE before publication.
Storage Conditions	Store in a dry area between 5°C and 35°C. Protect from direct sunlight.
Appearance / Colour	Reference product: light brownish liquid, clear to slightly cloudy. Confirm the actual appearance of CLASSICRETE 40 HE.
Specific Gravity	Reference value: approximately 1.11 at 25°C. Confirm by laboratory testing for CLASSICRETE 40 HE.
Solid Content by Weight	Reference value: >48%. Confirm by laboratory testing for CLASSICRETE 40 HE.
pH-Value	Reference value: approximately 4.3 (+1) at 25°C. Confirm by laboratory testing for CLASSICRETE 40 HE.
Total Chloride Ion Content	Reference product: Nil. Confirm by laboratory testing for CLASSICRETE 40 HE.

APPLICATION INFORMATION

Recommended Dosage	For medium workability: 0.2–0.8% by weight of cement. For high workability, very low water/cement ratio and Self-Compacting Concrete: 1.0–2.0% by weight of cement. Trial mixes are recommended to establish the correct dosage for the required performance.
Dispensing	Add CLASSICRETE 40 HE to the gauging water or introduce it with the water into the concrete mixer. For optimum utilization of the water-reduction property, thorough mixing is recommended, with a minimum wet mixing time of 60 seconds.
Compatibility	Compatibility with other admixtures and construction chemicals should be established by trials before combined use. Do not assume compatibility solely from the reference product data.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet should be based on laboratory tests for CLASSICRETE 40 HE. Actual measured data may vary due to circumstances beyond the manufacturer's control.

LIMITATIONS

When accidental overdosing occurs within reasonable limits, retardation of initial set and increased bleeding may occur. When using CLASSICRETE 40 HE for Self-Compacting Concrete, a suitable mix design must be used.

NOTE

All technical data stated in this Product Data Sheet should be based on laboratory tests. Actual measured data may vary due to circumstances beyond the manufacturer's control.

ECOLOGY, HEALTH AND SAFETY

Users must read the most recent corresponding Safety Data Sheet (SDS) before using CLASSICRETE 40 HE. The SDS should provide information and advice on the safe handling, storage and disposal of the product, including relevant physical, ecological, toxicological and other safety-related data.

CLEANING OF TOOLS

Clean all equipment and tools with water immediately after use.

LOCAL RESTRICTIONS

Product performance and application requirements may vary according to local regulations and site conditions. Users should consult the most recent local Product Data Sheet and applicable standards for the intended application.

LEGAL NOTES

The information and recommendations relating to the application and end-use of CLASSICRETE 40 HE are intended to be used in good faith based on available product knowledge, testing and experience when the product is properly stored, handled and applied under normal conditions. In practice, differences in materials, substrates and actual site conditions may affect performance. No warranty regarding suitability for a particular purpose should be inferred beyond the manufacturer's stated terms. The user must test the product's suitability for the intended application and purpose. Product properties may be changed by the manufacturer without prior notice. Users should always refer to the most recent issue of the local Product Data Sheet for the product concerned.

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