

PRODUCT DATA SHEET



Uerochem-55

PRODUCT DISCRIPTION

Uerochem55 is a low-range Polycarboxylate Ether (PCE) based concrete admixture designed to improve the workability and strength of concrete mixes with a low water-cement ratio. This admixture enhances the plasticity of concrete while allowing for reduced water content, making it suitable for a wide range of concrete applications, particularly where superior workability and strength are required.

Technical Data

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| Appearance | Clear to light yellow liquid |
| Specific Gravity | 1.04 ± 0.02 at 25°C |
| pH Value | 6.0 - 7.5 |
| Chloride Content | < 0.1% |
| Recommended Dosage | 0.5% - 2.0% by weight of cement (depending on desired workability and strength requirements) |
| Compatibility | Compatible with most Portland cements and supplementary cementitious materials |
| Shelf Life | 12 months in unopened containers, stored in a cool and dry place |

Features & Benefits

- Improves workability and plasticity of concrete
- Reduces water content without compromising concrete strength
- Enhances the early and final strength of concrete
- Reduces shrinkage and cracking potential
- Increases durability and resistance to environmental factors
- Compatible with various cement types and supplementary cementitious materials

Applications

- Ready-mix concrete
- Precast concrete elements
- Low to medium strength concrete
- Concrete with low water-cement ratios
- Mass concrete pours

PERFORMANCE DATA

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|------------------------|--|
| Water Reduction | Up to 05-15% depending on dosage |
| Slump Retention | Maintains workability for up to 120 minutes |
| Setting Timet | May slightly extend initial and final set times (dependent on dosage and ambient conditions) |

Application Instructions

- **Mixing:** Uerochem55 should be added to the concrete mix during the initial stages of mixing, preferably with the mixing water. Ensure that the admixture is thoroughly dispersed throughout the mix.
- **Dosage:** The recommended dosage is 0.5% to 2.0% by weight of cement. Adjust the dosage based on specific project requirements and desired concrete properties.
- **Compatibility:** Uerochem55 can be used with other admixtures, but a compatibility test is recommended when using multiple admixtures.
- **Curing:** Proper curing practices should be followed to achieve the best results in terms of strength and durability.

Packaging

- Available in 200 L drums, 250 L deums, or bulk supply

Storage

- Store in a cool, dry place, away from direct sunlight. Keep containers tightly closed when not in use. Protect from freezing.

Health & Safety

- Avoid contact with skin and eyes. In case of contact, rinse immediately with plenty of water.
- Wear appropriate personal protective equipment (gloves, goggles) during handling.
- In case of ingestion, seek medical attention immediately.
- Keep out of reach of children.

Disposal

- Dispose of contents and packaging in accordance with local regulations.

Technical Support

- For additional information, technical support, or to schedule a site visit, please contact our technical services department.