

# PRODUCT DATA SHEET



**UREKA®**

## Urochem-63

### PRODUCT DISCRIPTION

This Retarding Superplasticizing Admixture is a high-performance construction chemical designed to enhance the workability and durability of concrete. It slows the setting time of concrete, making it ideal for hot weather concreting or situations where extended workability is required. The admixture also improves the strength, finish, and overall performance of the concrete.

### Technical Specifications

<b>Appearance</b>	Dark brown liquid
<b>Specific Gravity</b>	1.010 ± 0.02 at 25°C
<b>pH</b>	6.5 - 8.5
<b>Chloride Content</b>	< 0.1% (w/w)
<b>Air Entrainment</b>	Typically < 2% increase in air content
<b>Dosage</b>	0.3% - 1.25% by weight of cement (adjust based on trial mixes)

### KEY FEATURES

- Delays the initial setting time of concrete, allowing for extended workability.
- Significantly improves the flowability and workability of concrete without increasing water content.
- Increases the compressive strength of concrete at all ages.
- Provides a smooth, high-quality surface finish.
- Suitable for use with all types of Portland cement and blended cements.
- Enhances the durability and resistance of concrete to water penetration.

### Applications

- **Ready-Mix Concrete:** Ensures consistent workability and strength, especially in hot weather conditions.
- **High-Performance Concrete:** Enhances strength and durability for critical structural applications.
- **Pumped Concrete:** Improves pumpability and reduces the risk of blockages in pipelines.
- **Mass Concrete:** Ideal for large pours where extended setting time is necessary to prevent cold joints.

### Advantages:

- **Extended Workability:** Ideal for long-distance transportation or in hot climates.
- **Reduced Water Content:** Helps achieve high-strength concrete with lower water-cement ratios.
- **Enhanced Durability:** Improves the long-term durability of concrete by reducing permeability and shrinkage.

# Guidelines for Use:

- **Mixing:** Add the admixture to the concrete mix at the batching plant. It can be added directly to the mixing water or at the end of the mixing process.
- **Dosage:** The optimum dosage should be determined by site trials using the actual materials and conditions under which the concrete will be produced. Typical dosages range from 0.3% to 1.25% by weight of cement.
- **Compatibility:** This admixture is compatible with most other admixtures. However, it is recommended to conduct trial mixes to verify performance.

## Storage and Handling

Shelf Life	12 months in unopened containers when stored in a cool, dry place.
Storage Conditions	Store in sealed containers between 5°C and 35°C.
Handling Precautions	Avoid contact with skin and eyes. Use appropriate personal protective equipment.

## Packaging

- Available in 250L drums, or bulk supply.

## Safety Information

- Refer to the Safety Data Sheet (SDS) for detailed health and safety information.

## Compliance

- Meets the requirements of ASTM C494 Type D and G, BS EN 934-2, and IS 9103 standards.

## Technical Support

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