

# OPTOMIX RW50

## Water Reducing Set Retarding Admixture

### Description

**Optomix RW50** is a specially formulated water reducing set retarding admixture based on a blend of high grade polyhydroxycarboxylic acid derivatives and synergistic active ingredients which provide water reduction and controlled set of ready mixed concrete, screed and mortars. **Optomix RW50** is normally used in building mortars in conjunction with an Ocrete Air Entrainer to produce a pre-mixed ready for use mortar with extended setting time and workable life.

### Applications

**Optomix RW50** is used to control and extend set times in concrete, screed and mortars. **Optomix RW50** can be used to extend the workable life of up to 100 hours, enabling advantages of ready to use mortar systems to be maximised. Screeds can be produced and delivered with a workable life of a full working day.

### Benefits in Mortar & Screed

- Controlled workable life
- Improved durability
- Reduced shrinkage
- Freeze thaw resistance

### Benefits in Concrete

- Controlled setting times
- Increased strength
- Longer working life
- Multi use product



### Properties

Nature	Liquid
Colour	Brown
Specific Gravity	1.16 g/cm <sup>3</sup>
pH	9.0
Chloride Content	<0.10%
Na <sub>2</sub> O equivalent	<3.50%

### Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

#### **Mortar**

1.50% by weight of cement & replacement will retard mortar for approximately 30 - 36 hours.  
(2.25% for cement/lime mortars)

#### **Screed & Concrete**

100mls - 1000mls per 100 kg cement  
(0.10% - 1.00% by weight of cement)\*

\* These dosages will increase the initial setting time of concrete by 2 - 10 hours above the normal setting time depending on weather and materials, trials to determine these facts must be carried out before starting any new contract.

### Standards

**Optomix RW50** complies with the requirements of BS EN 934-2 and BS EN 934-3 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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### Compatibility

**Optomix RW50** is compatible with all types of EN 197 cement systems.

**Optomix RW50** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Optomix RW50** should be stored undercover and protected from extreme temperatures, if stored unopened within the range 5°C and 30°C the product will have a minimum shelf life of 12 months.

### Handling

Please refer to the **Optomix RW50** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

### Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

#### **Disclaimer**

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

### Notes

**Optomix RW50** should be added with the water or at the end of the mixing process and not directly onto the cement. A mixing time of at least 30 seconds is recommended after the addition of the admixture.

If frozen **Optomix RW50** may be used after thawing slowly at room temperature followed by intensive remixing.

**Optomix RW50** if overdosed will result in an increase in workability and set retardation. The amount of increase will depend upon the actual overdose, the temperature and the materials used, care should be made when dosing to dispense the correct addition.

Please consult the OSCRETE Technical Department for advice on admixture selection.

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