

## TECHNICAL DATA SHEET

### **RITEMIX ACCELERATOR**

*Water Reducing and Set Accelerating Admixture*

#### PRODUCT DESCRIPTION

**RITEMIX ACCELERATOR** is supplied as a brown liquid, is based on selected stabilized sugar reduced lignosulphonates blended with calcium chloride, which when added to cementitious mixes, accelerates hydration and enables the water content to perform more efficiently.

#### CUSTOMER BENEFITS

- Allows continuous placing of concrete at low temperatures
- Gives anti-frost protection by allowing water reducing thus accelerating cement hydration process
- Allows earlier release from precast molds
- Allows reduction in mixing water with no loss of workability
- Increased density and compressive strength

#### RECOMMENDED FOR:

As an accelerator for use in concrete and cement mortars to promote rapid strength development for early stripping of formwork, and to assist in resisting of frost attack, ideal for cold winter working conditions.

#### STANDARD COMPLIANCE

**RITEMIX ACCELERATOR** complies with ASTM C494-1971.

#### Calcium Chloride content

Chloride ion concentration in **RITEMIX ACCELERATOR** is 20% by weight. At the maximum recommended addition rate of 3.4litre/100kg cement, this represents 1.4% of anhydrous calcium chloride (0.9% chloride ion by weight of cement).

In unreinforced concrete containing no embedded steel, **RITEMIX ACCELERATOR** at the recommended dosage rates may be safely used.

#### INSTRUCTIONS FOR USE

##### Mix design

Where the main requirement is to improve strengths, initial trials should be made with normal concrete mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining workability. After initial trials, minor modifications to the overall mix design may be made to optimize performance.

#### Compatibility

**RITEMIX ACCELERATOR** is generally compatible with other Magna Prime admixtures, however admixtures should be added separately to the concrete mix.

**RITEMIX ACCELERATOR** is compatible with ordinarily and rapid hardening portland cements but not high alumina or sulphate resisting cements.

#### Dispensing

The correct quantity of **RITEMIX ACCELERATOR** should be measured by means of a recommended dispenser. Normally, the admixture should be added to the concrete with its mixing water to obtain the best results.

#### Typical dosage

Optimum dosage of **RITEMIX ACCELERATOR** to meet specific requirements should always be determined by trial mixes using the material and conditions that will be experienced in use.

The following addition rates are recommended as a starting point.

#### Temperatures above 4°C

Concrete and mortars : 1.7 litres/100kg cement

#### Temperatures from 4°C to -2°C

Concrete and mortars : 2.6 litres/100kg cement

#### Temperatures below -2°C

Concrete and mortars : 3.4 litres / 100kg cement

#### Use at other dosages

Dosages outside the typical ranges quoted above can be used to meet particular requirement. Contact your local Magna Prime office for advice.

#### Effects of overdosing

Overdosing will result in increased acceleration, increased workability and may also cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and overdose level.

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**Cleaning and disposal**

Spillages of **RITEMIX ACCELERATOR** should be absorbed onto sand, earth or vermiculite transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.

**PACKAGING**

**RITEMIX ACCELERATOR** is available in 20 liters pail and 200 liters drum.

**Limitations**

**RITEMIX ACCELERATOR** should not be used where there is embedded or pre-stressed steel, or with high alumina cement or sulphate resisting cement, or where steam curing is employed.

**STORAGE**

**RITEMIX ACCELERATOR** has a minimum shelf life of 1 year when stored unopened, and kept in a cool and dry place.

**HEALTH AND SAFETY**

**RITEMIX ACCELERATOR** should not be swallowed. Any splashes should be washed well with water. Any eye contamination should be washed with plenty of water.

**Fire**

**RITEMIX ACCELERATOR** is an inert, non-flammable material.