

Hydrocon R5

Cement hydration controlling admixture



Description

Hydrocon R5 is a liquid admixture formulated from selected polymers specially designed to retard the setting time by controlling the hydration process of Portland cement and other cementitious materials for long time. This effect can be used to keep concrete workable for long time starting from 3 hours till three days.

Applications

- ▲ For wet type shotcrete.
- ▲ For long distance concrete delivery.
- ▲ High performance concrete.
- ▲ Concrete washwater stabilisation.
- ▲ To avoid setting of concrete in transit mixers in case of accident.

Advantages

- ▲ Reduces concrete waste in case of changing concrete casting schedule.
- ▲ Excellent retardation for long time up to 3 days.
- ▲ Excellent slump retention for very long concrete deliveries.
- ▲ Saves transit mixers drums in case of accidents.
- ▲ Reduces the needed amount of water to clean transit mixer.
- ▲ Chloride free.

Compatibility

Hydrocon R5 can be used with all types of Portland cement and cement replacement materials. Hydrocon R5 is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

Standards

Hydrocon R5 complies with ASTM C494, Type B.

Method of Use

Hydrocon R5 should be added to the concrete with the mixing water to achieve optimum performance. Also it can be added directly to the drum of concrete mixers when unplanned changes in concrete casting schedule.

Technical Properties @ 25°C:

Colour:	Brown liquid
Specific gravity:	1.20 ± 0.03
Chloride content: BS 5075	Nil

Dosage

The guidance dosage of Hydrocon R5 is 0.1 - 3.0 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Hydrocon R5 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Hydrocon R5 will cause the following:

- Significant increase in retardation.
- Increase in workability.

Cleaning

Hydrocon R5 can be washed with fresh cold water.

Packaging

Hydrocon R5 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Hydrocon R5 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

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Cautions

Health and Safety

Hydrocon R5 is not classified as hazardous material.
Hydrocon R5 should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

Fire

Hydrocon R5 is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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