

Hydrocon R3

Cement hydration controlling admixture



DESCRIPTION

Hydrocon R3 is a liquid admixture formulated from selected polymers specially designed to delay the setting time by controlling the hydration process of Portland cement and other cementitious materials.

This effect can be used to keep concrete mixes workable up to 3 days.

APPLICATIONS

- » For wet type shotcrete.
- » For long-distance concrete delivery.
- » High-performance concrete.
- » Concrete wash water stabilization.
- » To avoid setting of concrete in transit mixers in case of an accident.

ADVANTAGES

- » Excellent hydration control for a long time up to 3 days.
- » Excellent slump retention for extended delivery times.
- » Saves transit mixer drums in case of accidents.
- » Reduces the needed amount of wash water to rinse mixer.

COMPATIBILITY

Hydrocon R3 is suitable to use with all types of Portland cement and cement replacement materials. Hydrocon R3 is compatible with other DCP admixtures used in the same concrete mix.

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

STANDARDS

Hydrocon R3 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B and D admixture.

METHOD OF USE

Hydrocon R3 can be added at any time during the batching sequence but optimal performance is achieved after cementitious material is wet.

TECHNICAL PROPERTIES @ 25°C:

Color:	Clear liquid
Specific gravity:	1.06 ± 0.02
pH:	6 - 9
Chloride content:	Chloride-free

DOSAGE

The recommended dosage of Hydrocon R3 is between 163 to 8000 ml per per 100 kg of cementitious materials, including GGBFS, PFA or micro-silica. Actual dosage depends on the desired retardation.

Representative trials should first be conducted to determine the optimum dosage of Hydrocon R3 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVERDOSAGE

Overdosage of Hydrocon R3 will cause the following:

- » Significant increase in set time.
- » Increase in workability.

CLEANING

Clean Hydrocon R3 with fresh cold water.

PACKAGING

Hydrocon R3 is available in 19 litre as well as 1,041 litre containers. Bulk supply in tanker trucks is also available upon request.

STORAGE

Hydrocon R3 has a minimum shelf life of 12 months from date of manufacture if stored properly in its original unopened packing at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact DCP Technical Department for advice.



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CAUTIONS

HEALTH AND SAFETY

Hydrocon R3 is not classified as a hazardous material.
Hydrocon R3 should not come into contact with skin and eyes.
In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

FIRE

Hydrocon R3 is nonflammable.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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