

Description

Optomix Re-Gen 9000 is a concrete set control agent which has been developed to control hydration in residual concrete for up to 72 hours. The length of hydration control is dependant upon the dosage which is added directly to the concrete mixer drum.

Application

Optomix Re-Gen 9000 is recommended for use in all types of concrete where moderate to extended delay of set times is required.

Optomix Re-Gen 9000 allows the re-use or recycling of concrete through a regeneration of plasticity of the mixed or returned concrete.

e.g. enabling use after overnight storage.

Optomix Re-Gen 9000 is used for:

- Controlling hydration in concrete washwater
- Controlling hydration in returned plastic concrete
- Controlling hydration in fresh concrete for traveling

Benefits

The set-retarding characteristics of **Optomix Re-Gen 9000** can give the following benefit in the production of concrete.

Environmentally Friendly, Re-Gen 9000 can reduce waste and rehydrate returned concrete.

Extended Set Control, Re-Gen 9000 can offer moderate to extended retardation depending on the dosage used. Provides flexibility in the transportation, placing and finishing operations.

Increased 28 day strength, Re-Gen 9000 can increase the later 28 day strength by slowing down the hydration process.



Addition Rates

Dosage rates will be dependent on application:

- for overnight hydration control **1.5 litres per truck**
- for weekend hydration control **3.0 litres per truck**

Application Procedure

Optomix Re-Gen 9000 is supplied ready to use in 25 litre or 200 litres drum and in 1000 litre IBC's.

Overnight Stabilising: add **1.5 litres** of Re-Gen 9000 together with 200 litres of water to the truck containing either the washwater or any returned concrete. The truck must then be remixed to ensure full dispersion throughout the concrete and the washwater.

Weekend Stabilising: add **3.0 litres** of Re-Gen 9000 and 200 litres of water to the truck containing the returned concrete. The truck must then be remixed to ensure full dispersion throughout the concrete.

After leaving concrete overnight or over the weekend the mix needs to be reconstituted by the addition of approximately 1.5 m³ of fresh concrete. Ensure that the mixing water is reduced by 200 litres to compensate for the initial water addition. This will ensure that the retardation effect is absorbed throughout the new concrete. For concretes containing CEM I a minimum cement content of 300kg/m³ is recommended. For concrete containing CEM II/A-L(L) this figure should be increased to 330kg/m³.

Standards

All Christeyns products are produced in accordance with the ISO 9001:2000 Quality Management Standard and the ISO 14001 Environmental Management Standard.

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

Dosing

Optomix Re-Gen 9000 should be added directly to the concrete truck with 200 litres of mixing water.

Typical Properties**Appearance**

Mid to Dark Brown liquid

Relative Density

1.136 gcm⁻³ at 20°C

Corrosion Behaviour

No performance determined

Air Entrainment

Typically less than 2% additional air entrained

Storage

Protect from the extremes of temperature. Freezing will affect the physical condition and may damage the material. The storage life of the material is 9 months.

Handling

Optomix Re-Gen 9000 is a non hazardous product but in line with general handling precautions to avoid contact with skin or eyes protective gloves and goggles should be worn.

Refer to the Material Safety Data Sheet for **Optomix Re-Gen 9000** for full details.

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