



HYDROBLOC

BUILT ON PERFORMANCE

HYDROBLOC CrystaAdmix

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Crystalline Waterproofing Concrete Admixture

Product Description:

HYDROBLOC CrystaAdmix is a crystalline technology concrete admixture used to produce permanently active waterproof concrete in:

- Water retaining structures; potable water tanks, sewage treatment plants, and septic tanks.
- Water excluding structures; retaining walls, tunnels, elevator pits, and dams.
- Below grade structures; piles foundations, basements.
- Mass concrete.

Key Features & Benefits:

- Permanently active; will self-heal future static cracks up to 400 microns.
- Improved final strength.
- Provides additional protection to reinforcement steel by reducing chloride ion diffusion.
- Can be used in a high w/c ratio (up to 0.55) concrete
- Withstands high water pressures (up to 14 bars)
- Compatible with most types of concrete admixtures
- Eliminates the need for surface waterproofing

Coverage:

The dosage amount depends on the concrete/mortar mix design and the reactivity of the cement. Trial applications must be conducted to find the suitable amount. The recommended dosage rate is 0.8 – 1.5% by weight of CEM.

Mixing Instructions:

DOSAGE IN MORTARS:

Add HYDROBLOC CrystaAdmix to the aggregate and approx. 40% of the mix water. Mix at least 2 minutes before adding the remaining water and cement.

DOSAGE IN READY-MIX FACTORY:

Add HYDROBLOC CrystaAdmix to the aggregate and mix at least 30 s before adding water and cement. Continue mixing for at least 45 s until the concrete mix has reached its working properties.

DOSAGE IN A BATCH TRUCK:

The addition of HYDROBLOC CrystaAdmix on the job site (batch truck) does not happen in powder form but as a suspension in water. Mix the required amount of HYDROBLOC



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CrystaAdmix with water in a suitable vessel and add this slurry completely into the mixing drum. The mixing ratio is approx. 1:1, add approx. 5 l water to a 5 kg bag HYDROBLOC CrystaAdmix. The required mixing time can be estimated as 1 minute per m³ drum contents, but min. 5 minutes. Make sure that the additional slurry water does not increase the water/cement ratio above the projected value. Otherwise, the water amount must be reduced from the mixing water dosage at the batch plant.

The working time after addition of HYDROBLOC CrystaAdmix depends on the reactivity of the used cement and can either be prolonged or shortened. The addition of a concrete retarder like RUXLITH-T5 (VZ) or REMITARD-20 (BV) may be required when using Portland Cement Type I, II or III. Suitability tests accord. to valid standards and norms must be carried out prior to application.

Application Guidelines:

- Concrete modified with HYDROBLOC CrystaAdmix may tend to effloresce depending on the composition
- Aggregates must have a continuous sieve line.
- It is recommended to perform compatibility tests with other admixtures as required.
- Concrete, modified with HYDROBLOC CrystaAdmix must be produced, placed and finished in accordance with valid norms.
- HYDROBLOC CrystaAdmix is non-corrosive and has no adverse effects on the reinforcement.
- Protect surrounding areas against the influence of HYDROBLOC CrystaAdmix.
- It is rarely possible that HYDROBLOC CrystaAdmix influences the setting of the concrete. Our products RUXOLITH-T5 (VZ) and REMITARD- 20 (BV) have proven to be effective retarders.
- Never apply HYDROBLOC CrystaAdmix powder into mixed (wet) concrete or mortar mixes as this will increase the risk of lump formation. A homogeneous dispersion of HYDROBLOC CrystaAdmix cannot be expected under these conditions.

Cleaning & Maintenance:

Regular water flushing of dispensing equipment will prolong service life and reduce breakdowns. Use REINIT-BM on internal metal surfaces subject to contact with concrete in concrete mixers, batch plants and truck mixers regularly to prevent concrete crust formations. Use REINIT-R to remove hardened concrete crusts.



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Packaging:

25 Kg Moisture-resistant bags.

Storage & Shelf life:

HYDROBLOC CrystaAdmix has a shelf-life of 12 months when stored dry at +20° C in original, unopened bags.

Health & Safety:

Please adhere to the Materials Safety Data Sheet (MSDS)!

Technical Data

Property	Value
Colour	Grey
Form	Powder
Bulk Density	1.04 g/cm
Processing temp	+8°C to +30°C
Application temp	from +5°C

TECHNICAL DATA SHEET



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PATSA
Protective Solution