

KRYSTAL 1500

Crystalline Waterproofing Admixture for Concrete

Description

Krystal 1500 reacts with the hydration products of cement to form crystals within the pores and capillaries of concrete structures, thereby effectively blocking the passage of water. It is specifically used for the treatment of concrete and concrete products to protect against water intrusion, leakage, cracking, chemical attack and corrosion of reinforcing steel.

Features

- Crystalline action is reactivated by contact with water providing dormant additional protection
- Improvement of the resistance to freeze/thaw
- Reduces repair and maintenance costs
- Reduces permeability of the concrete.
- Helps to increase the compressive strength of concrete.
- Protects concrete against chemical attack and corrosion of reinforcing steel.
- Effective against both positive and negative pressure
- Reduced concrete shrinkage and cracking.
- Excellent resistance to waterborne chemicals.
- Protection against sewage and industrial wastes.
- Provides total and permanent waterproofing properties.
- Non-toxic or tainting

Areas of Use

- Krystal 1500 can be applied to all concrete where water penetration should be permanently prevented.
- It is specifically used for the treatment of concrete and concrete products to protect against water intrusion, leakage, cracking, chemical attack and corrosion of reinforcing steel.

Mixing/Dosaging

- The water content in any concrete mix is directly related to the porosity of the resultant concrete. Hence, the dosage depends on
- the amount of mixing water (aggregate moisture included) in the batch mix. Krystal 1500 is added at the rate of 1.5% based on weight of cement and is dependent, amongst other criteria, on the concrete formula and the reactivity of the cement.

Krystal 1500



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Technical Details

Parameter	Control	Krystal 1500
W/C Ratio	0.50	0.50
Initial Set	5.50 hours	7.50 hours
Final Set	7.20 hours	9.50 hours
Air	1.50 %	1.50 %
Slump	100 mm	100 mm
Compressive Strength	31.5 N/mm ²	36 N/mm ²
Drying Shrinkage (micron)	380	340
Water Permeability	9.5 x 10 ⁻¹³	6.0 x 10 ⁻¹³

Curing

Concrete containing Krystal 1500 must be prevented from drying out too rapidly and should be kept damp for 5 – 7 days. Mist spraying with water and covering with polythene is effective when drying out would otherwise take place. Protect from weathering, sun, frost and wind for a similar minimum period.

Packaging

20 Litres

Storage and Shelf Life

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

Safety/Precaution

Refer to MSDS. KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin and eyes. Wear rubber gloves and safety goggles during mixing and application. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water for 15 minutes and seek medical advice.

Limited Warranty

All recommendations, statements and technical data here in are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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