

ARMORKRYSTAL400

CRYSTALLINE INTEGRAL WATERPROOFING ADMIXTURE

PRODUCT DESCRIPTION

ARMORKRYSTAL 400 - Krystal Integral Membrane is a crystalline Integral waterproofing admixture designed to resist hydrostatic pressure and for all concrete requiring primary waterproofing. The innovative crystalline technology within **ARMORKRYSTAL 400** reacts with moisture, silicate and free lime, a natural by-product of the cement hydration process.

The reaction creates millions of nano-crystals which grow throughout the concrete pores and capillary tract. It is specifically used for the treatment of concrete and concrete products to protect against water intrusion, leakage, cracking, chemical attack.

ADVANTAGES

- Extremely resistant to pressure from both negative and positive.
- reduces permeability of concrete
- increases compressive strength of the concrete.
- protects reinforcement from corrosion and aggressive chemicals
- Non-toxic
- reduces shrinkage and cracking of concrete

USES

ARMORKRYSTAL 400 can be used for the structural waterproofing of all concrete structures such as:

- Reservoirs
- Sewage and Water Treatment Plants
- Foundation and retaining Wall
- Secondary Containment Structures
- Tunnels and Subway Systems
- Swimming Pool
- Concrete Slabs and Precast panels

DIRECTION FOR USE

Dosage Rate: 1.5% by weight of cement mass. Consult with ARMORSIL's Technical Department for assistance in verifying the appropriate dosage rate and for further information regarding enhanced chemical resistance and optimum concrete performance for your project.

Mixing: ARMORKRYSTAL 400 must be added to the concrete at the time of batching either at the batching plant or at the point of placement

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CURING

Concrete containing Armorkrystal 400 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.

CURING

INITIAL SET TIME	7.50 HOURS
FINAL SET TIME	9.50 HOURS
COMPRESSIVE STRENGTH	36 N/mm ²
SLUMP	100mm
W/C RATIO	0.5
WATER PERMEABILITY	6 x 10 ⁻¹³
AIR	1.5%

CLEANING AND HEALTH

ARMORKRYSTAL 400 is a non-hazardous material, however because it is used with Portland cement it should be known prolonged contact with skin by Portland cement may lead to irritation, as it is the case with all cementitious based material, therefore safety gloves and glasses should be used when working with cement.

PACKAGING AND SHELF LIFE

ARMORKRYSTAL 400 are packed in 20kg buckets. Store in a cold dry place. With proper storage material, can be stored and used within 12 months.

LIMITED WARRANTY

All recommendations, statements and technical data herein 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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