

ARMORKRYSTAL 500

LIQUID CRYSTALLINE INTEGRAL WATERPROOFING ADMIXTURE

PRODUCT DESCRIPTION

ARMORKRYSTAL 500 – is a liquid crystalline Integral waterproofing admixture designed to resist hydrostatic pressure and It is used for all concrete requiring primary waterproofing. The innovative crystalline technology within ARMORKRYSTAL 500 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. Thus, the concrete becomes permanently sealed against the penetration of water or liquids from any direction. The concrete is protected from the deterioration due to harsh environmental conditions.

ARMORKRYSTAL 500 has been specifically formulated to meet the different temperature and climate conditions. Because it is also liquid, it eliminates the risk of clumping.

TYPICAL APPLICATIONS

ARMORKRYSTAL 500 can be used for the structural waterproofing of all concrete structures such as:

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

ADVANTAGES / BENEFITS

- Extremely resistant to hydrostatic pressure from both negative and positive side of the slab
- Increases freeze thaw resistance of the concrete
- Becomes an integral part of the concrete.
- Highly resistant to aggressive chemicals and protect reinforcement against corrosion.
- Non-toxic (NSF 61 certified for potable water applications)
- Negligible effect on slump, air entrainment, plasticizers and water reducers.
- Permeability tested as per ACE (Army corps of Engineers)
- Allows concrete to breathe and can seal hairline crack up to 0.4mm

DIRECTION FOR USE

Dosage Rate: 1- 2% by weight of cement. 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 500® must be added to the concrete at the time of batching.

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SETTING TIME AND STRENGTH

The setting time of concrete is affected by the chemical and physical composition of ingredients, temperature of the concrete and climatic conditions. ARMORKRYSTAL 500 will have little or no effect on the set time. However, concrete with ARMORKRYSTAL 500 may deliver higher compressive strength than normal concrete

SPECIFICATION

ARMORKRYSTAL 500 should be specified for all concrete surfaces subject to hydrostatic pressure or water attack.

ARMORKRYSTAL meets ACI 212 classification of Permeability Reducing Admixture for Hydrostatic Condition (PRAH)

TECHNICAL INFORMATION

Chloride content: NIL

Appearance: milky tea low viscous Liquid

Density: 1.19 g/cm³

PH Value: 7 -9

Air entrainment: < 2%

Packaging: 20L

PACKAGING AND SHELF

ARMORKRYSTAL 500 is packed in 20L and 210L drum. Store in a cold dry place. With proper storage material can be stored and used within 12 months.

CLEANING AND HEALTH

ARMORKRYSTAL 500 is a non-hazardous solution, however because it is used with Portland cement, there should be no prolonged contact with skin. 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.

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.

Armorsil Manufacturing supplies products that comply with the

properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Armorsil Manufacturing does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to Armorsil Manufacturing in writing within seven working days of being detected.

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