

ARMORKIM ADMIX 600

CONCENTRATED POWDER CRYSTALLINE INTEGRAL WATERPROOFING ADMIXTURE

Product Description:

ARMORKIM ADMIX 600 - Krystal Integral Membrane is a powder crystalline Integral waterproofing admixture designed to resist hydrostatic pressure and for all concrete requiring primary waterproofing. The innovative crystalline technology within **ARMORKIM ADMIX 600** 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.

ARMORKIM ADMIX 600 has been specifically formulated to meet the different temperature and climate conditions.

Typical Applications:

ARMORKIM ADMIX 600 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
- Shotcrete and G Unit applications

Advantages/Benefits:

- Extremely resistant to hydrostatic pressure from both negative and positive side of the slab
- Increases compressive strength and freeze the 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 breath and can seal airline crack up-to 0.4mm

Direction for Use:

Dosage Rate: 1% 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: **ARMORKIM ADMIX 600** must be added to the concrete at the time of batching either at the batching plant or at the point of placement

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. **ARMORKIM ADMIX 600** will have little or no effect on the set time. However concrete with **ARMORKIM ADMIX 600** may deliver higher compressive strength than normal concrete

Specification:

ARMORKIM ADMIX 600 should be specified for all concrete surfaces subject to hydrostatic pressure or water attack.

ARMORKIM 600 meets ACI 212 classification of Permeability Reducing Admixture for Hydrostatic Condition (PRAH)

Technical Data:

Color	Free flowing grey powder
Density	1,350 gm/cm ³
pH Mixing	11,5
Capillary Absortion	44% water Reduction (ASTMC 1585)
Water penetration	42 % water reduction (DIN 1048)
Compressive Strength	9% Increase (ASTM C 39)

Cleaning and Health:

ARMORKIM ADMIX 600 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:

ARMORKIM ADMIX 600 are packed in 20 kg buckets. Store in a cold dry place. With proper storage material, can be stored and used within 12 months.



ARMORSIL MANUFACTURING INCORPORATION

Sede legale: VIA Montello 48, INT #3 Pordenone, Italy. 33170. Tel: + 30256365-16

www.armorsil.com, info@armorsil.com , sales@armorsil.com

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.

Armorsil Manufacturing. Makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied. Neither seller nor Armorsil Manufacturing shall be liable to the buyer or any third person for any injury, loss or damages of any sort including remote or consequential damages, down time, or delay directly or indirectly resulting from use of or inability to use the product. . The information contained in the latest data sheet supersedes all previously published editions. Visits to site by Armorsil personnel do not constitute supervisory responsibility. Armorsil reserves the right to alter the information contained in this datasheet without prior notice