

ZELOGUARD 2CAC

Two Component Acrylic Polymer
Cement Based Liquid Waterproofing



TECHNICAL DATA SHEET

DESCRIPTION

- Zeloguard 2CAC is a two-component acrylic polymer modified cementitious elastic water proofing system composed of a specified liquid polymer and cement powder. Zeloguard 2CAC is commonly applied for water tightness work, concrete protection, water proofing of wet areas, super structures, façade areas, and other construction materials. It performs effectively when it comes of creating a barrier against watery salts and chloride attacks.

PRODUCT FEATURES

- Adhesion to practically all surfaces is excellent.
- It is suitable for drinking water because it is non-toxic.
- Hardwearing and seamless, with excellent water resistance and flexibility.
- Positive and negative pressure resistance
- Carbon dioxide and chloride absorption resistance, as well as the formation of an anti-carbonation layer.
- Can be applied on a recent concrete structure.

TYPICAL USES:

- Basements, overall building water and damp protection
- Pools, lift openings spillages, bathroom slabs, kitchen slabs, and other wet areas.
- Water- and damp-proof liner for constructions that retain water.
- Both interior and exterior water hardening of water-use pools.
- Façade areas behind curtain walls.
- Protecting concrete towards carbonation and chloride attack.
- For saltwater substructure protection coating.
- Roof and tunnel protection coating
- Marine pathways, sea water channels, and so on. Waterproof background mortar for tiles and marble, granite, and so on.

PREPARATIONS:

- The surface must be clean and devoid of any unwanted debris such as oil, grease, dust, and so on. Prior to application, the surface to be treated should be well wet (but not standing water).
- The maximum residual relative humidity (RH) for new concrete should be 75%.
- Remove laitance, curing chemicals, and other loose contaminants from concrete surfaces using mechanical methods such as angle grinding to give a mechanical key for the next step Zeloguard 2CAC.

MIXING:

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APPLICATION:

- Zeloguard 2CAC, could be applied with a brush or roller to create a water-resistant and flexible film. Spread the initial application thickly enough to cover the punctures, cracks, and other defects, at a rate of 1.2-1.5kg/m². After the first coat is completely dry, apply a second coat to reach the desired thickness at a rate of 0.8 to 1kg / m² per coat.
- Before applying the second coat and while the first coat is still wet, the places where joints are coming can be covered with fiber reinforced mesh. It is advised that each coat be a minimum of 1mm thick for general protection. Allow Zeloguard 2CAC to cure fully for 4 - 7 days before screeding, tiling or exposing to full environmental conditions.

COVERAGE:

- 2kg / m²/mm in two coats.

CLEANING:

- Use Water to clean all tools after use immediately.

PACKING:

- Zeloguard 2CAC is offered in a 16kg/ kit consisting from Part A (Powder) of 12kg selected cements, graded polymer, silica, and additives. Part B (Liquid) of 4Kg enhanced acrylic copolymers. Deliveries must be done in bulk using storage tanks or containers that are specifically intended for site installations or large-scale consumption.

STORING:

- Zeloguard 2CAC should be kept in warehouses that are cold, dry, and shaded. When kept in accordance with guidelines, under cover, out of direct sunlight, and shielded from severe temperatures, products have a shelf life of 12 months. The product needs to be stored in a cold environment in extremely hot climates. The shelf life will be decreased by excessive humidity and UV exposure.

HEALTH & SAFETY:

- Zeloguard 2CAC contains no dangerous materials. Always use caution when using any chemical items for building. While working with, safety clothes such as gloves and goggles is required. For maximum safety, wearing safety shoes, a face mask, and a long-sleeved overall is advised. After use, close all containers, and make sure the product is stored in accordance with the directions on the label's safety section. Use fresh water right away to any drops that hit the skin or eyes. Don't make yourself throw up if you unintentionally consume one of the products; instead, ask for help immediately. Please consult the MSDS provided with each Titan-Tech product for more information.

PROPERTIES

- Standard conforms: BS 1881 Part 5 1983(ISAT); 476 Part 6; DIN 1048:Part 5 1991 (water permeability test)
- Specific Gravity: 1.7
- Color: Grey, White and other color on request
- Tensile strength: 7.8N/mm² (28 days)
- Flexibility: 1.5mm thick:30%
- Elongation: >50%
- Toxicity: Non Toxic
- Water Penetration: At 7 bars, no penetration 2mm DFT (DIN 1048)
- Chloride Ion Diffusivity: Zero penetration at 90 days
- Chemical Resistance: Strong Resistance against gasoline, diesel, sodium hydroxide, CaCl₂, deicing salts etc..