



## TECHNONICOL ULTRACHEM 2C

Two-Component Elastic Cement Waterproofing membrane

TECHNONICOL ULTRACHEM 2C is a two-component acrylic polymer modified elastomeric cementitious liquid applied waterproofing coating system. It is applied to concrete and mortar to prevent water infiltration. It is easy to apply on the surfaces by a stiff brush, roller or trowel to form a flexible, waterproof coating and applied before tiling in water tank, bathrooms, swimming pools, balconies or any other wet area etc, which cures to form a tough and flexible coating having excellent waterproofing properties.

### AREA OF APPLICATION:

- Waterproofing terraces, tanks, swimming pools, balconies before laying ceramic tiles.
- Waterproof coating of retaining walls and lining for concrete structures.
- Flexible coating of prefabricated structures, micro-cracked concrete substrates, screeds, plasters.
- Protection of concrete from the action of smoke, carbon dioxide, chlorides, sulphates.
- Waterproofing tanks for water containment.

### ADVANTAGES

- Excellent water resistance
- Applicable on various types of substrates.
- High flexibility
- Applicable from + 5 °C to + 35 °C (substrate temperature).

### SURFACE PREPARATION

- The substrate should be sound, free of dust, any contaminations, efflorescence, and offcuts itself, paints, waxes, oils, and rust.
- All irregularities that can cause consistent thickness changes or difficulties in application must be eliminated. If the substrates to be processed are too absorbent, moisten them with water before application of the product.
- Clean well and remove all incoherent parts, restoring with polymer modified mortar.
- Any structural cracks and potholes shall be repaired with a suitable repair mortar. The surface to be treated should be pre-saturated with water prior to application. However, any standing water shall be removed prior to application.

### PRODUCT MIXING

- Mix the latex 1 part (component B) into a clean pot with suitable capacity and shake it and then add a pack of powder 3 parts (component A) by weight.
- Continue to mix with a low-speed mixer until a smooth homogenous and lump-free mixture is obtained, taking care not to incorporate air into the mixture.
- DO NOT ADD WATER TO DILUTE THE MATERIAL. (Avoid mixing partial quantities of the two components.)
- Working in very high temperatures but protecting the packages from the sun before applying.

### APPLICATION METHOD:

- It is recommended to apply TECHNONICOL ULTRACHEM 2C in two or three coats at the rate of 1.8-2.0kg/m<sup>2</sup> to achieve the thickness of 1mm with the help of steel towel.
- After the application of the first coat and whilst the coating is still wet, embed a glass fiber mesh/scrim cloth at all corners and other joints for added reinforcement.
- The second coat shall be applied after the first coat dries off completely (6-8 hours at 25°C, 50% rh). For general protection against carbonation and alkali attacks, the coating can be applied to a minimum of 1mm thickness. If applied with airless spray, consumption might vary depending upon the various factors of concrete structure such as finish, porosity, and undulation etc.
- In case of surfaces subjected to heavy traffic movement need to be applied higher thickness of 1.5-2.0mm followed by protection screed.
- In excessively dry, ventilated, or hot days and climates, protect the product applied by drying it with wet hessian cloth or dampening the product perfectly by mist spraying water onto the substrate of the application. Do not apply in full sun or in the presence of strong wind and / or overheated substrates.
- The coating will achieve its full mechanical properties within 7 days at 25°C and 50% RH

\***Note:** Clean the tools immediately before drying the product.

## MAIN CHARACTERISTICS:

Properties	Performance	Test method
Appearance	Grey/off white	Visual
Mixed density, kg/l	1.8±0.02	ASTM D1475
Pot life, minutes	45	-
Tensile strength, Mpa	>2	ASTM D412
Elongation, %	>50	ASTM D412
Adhesion strength to concrete, Mpa	>1.5	ASTM D4541
Crack bridging, mm	>1.5	ASTM D836
Hydrostatic pressure@5 bar(50m)	No leakage	BS EN 12390 Part 8
Toxicity	Non toxic	IS 6582
Application of second layer after, h	4-6	-
Drying time, h	6-8	-
Full cure, days	7	-

**CONSUMPTION:** 1.8-2.0 kg/m<sup>2</sup> for 2 coats to achieve the thickness of 1mm, consumption might vary depending upon the various factors of concrete structure such as finish, porosity, and undulation etc. The consumption will increase with geo fabric.

### STORAGE:

The product in its original sealed packaging, kept in a dry and protected place, sheltered from high and low temperatures, is kept for 12 months.

### PACKAGING INFORMATION:

Single box packing of Component B: 5kg and Component A: 7kg

### HEALTH & SAFETY

- As with all construction chemicals products caution should always be exercised.
- Protective clothing such as gloves and goggles shall be worn.
- Treat any splashes to the skin or eyes immediately with fresh water.
- Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.
- Do not use empty containers for food storage.
- PROFESSIONAL USE ONLY.