



# COSTAR 2K

Cementitious waterproofing membrane

## PRODUCT DESCRIPTION

Costar 2K is a high-performance, two-component waterproofing membrane characterized by its robust elastic properties. It is designed for versatile application, providing effective waterproofing on both the positive and negative sides of interior and exterior concrete and masonry surfaces. The membrane demonstrates exceptional bond strength to substrates on both sides, coupled with excellent elasticity.

## FEATURES

- Superb durability.
- Track record of competence and excellence.
- Can be applied on damp substrates
- Elastomeric, therefore able to bridge cracks
- Excellent adhesion to concrete and masonry surfaces
- Non-poisonous and therefore suitable for potable water applications
- Provides anti-carbonation cover over concrete
- Can be applied by trowel, roller and airless spray machine.

## APPLICATION AREA

- Indoor and Outdoor areas
- Horizontal and vertical surface application
- All wet areas such as bathrooms, swimming pools, terraces, kitchen, water tanks, balcony etc.

## APPLICATION

### Substrate Investigation

Concrete substrates must be sound and of sufficient compressive strength (minimum 25N/mm<sup>2</sup>) with a minimum pull off strength of 1.5N/mm<sup>2</sup>.

### Surface Preparation

The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. if in doubt, apply a test area first. Concrete substrates could be prepared mechanically

using abrasive blast cleaning or scarifying equipment to remove laitance and achieve an open textured.

surface. Weak concrete must be removed and surface defects such as voids must be fully exposed. Repairs to the substrate, filling of voids and surface leveling must be carried out by using Costar Repair Mortar.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

It is recommended that 2 layers are applied on areas where stronger protection is required.

### Mixing

Costar 2K must be thoroughly mixed using a low speed electric stirrer (300- 400rpm) or other suitable equipment. Prior to mixing, stir part A mechanically and when all of part B has been added to part A, mix continuously for 2 minutes until a uniform mix has been achieved.

### Installation

Costar 2K is applied by roller, spraying equipment or serrated trowel poured up to desired thickness. Depending on application style adopted, if necessary, immediately roll in two directions with spiked roller to ensure even thickness and to remove entrapped air

### Curing

It is important to protect Costar 2K against rapid drying from exposure to direct sun ray, extreme temperatures or wind. Thus curing by the use of a curing compound such as Costar Cure 10, 20, or 30 is recommended.

### Precaution

- Do not add water to dilute the material
- For Further details on Environmental, Health and Safety information, please consult and follow all instructions on the product Material Safety Data Sheet.
- Coverage is changeable depending on the application type, surface porosity, surface profile, variation in level or wastage etc. it is recommended that at least 3 layers are applied.

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## TECHNICAL PROPERTIES

|                           |   |
|---------------------------|---|
| Packaging                 | Two component (A---20kg, B---8kg) = 28kg pack                 |
| Shelf life                | 12 months from date of production                             |
| Appearance                | Component A is greyish, component B is a white liquid         |
| Mixing ratio              | Factory proportioned unit. Mix entire contents.               |
| Pot life                  | Approximately 40minutes                                       |
| Recoat time               | Allow 2 hours minimum between coats                           |
| Tensile strength          | ≥ 2.0 N/mm <sup>2</sup> ASTM D-412                            |
| Elongation at break       | ~65 % ASTM D-412  |
| Tensile adhesion strength | ≥ 2.50 N/mm <sup>2</sup> ASTM D4541                           |
| Application thickness     | ~1.2–1.5 mm in 2 coats  |
| Adhesion to substrate     | 1.0N/mm <sup>2</sup> ASTM D4541                               |
| Fresh mortar density      | ~2.0 kg/L (Part A+B mixed, +27 °C)                            |
| Ambient air temp          | +10 °C min. / +40 °C max.                                     |
| Coverage                  | 1.5 - 1.7kg / sqm coat for 1mm dry film thickness in 2 coats. |
| Proprietary polymer       | High quality modified acrylic polymer                         |
| Flammability              | Non - Flammability  |

### Cleaning

The equipment can be cleaned by directing compressed air through the system, targeting the water. Additionally, the nozzle and injector should be rinsed with water.

### Caution

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.



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## STORAGE AND SHELF LIFE

Store under warehouse conditions below 35°C in the original, unopened packs. If stored at high temperature and/or high humidity conditions, the shelf life will be reduced.

It has a shelf life of 12 months when stored in a dry place below 35°C in their original, unopened packs.

## STANDARD COMPLIANCE

Conforms to EN 1489-2007, ASTM D-968

## HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product. For Professional Use only.

## ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-Proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

## LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.