

# COSTAR 1K

## Polymer Modified Cementitious Waterproofing

### Description

Costar 1K is a blend of Portland cement, well graded quartz sand and polymer enhanced chemical ingredients which when mixed with water, forms a waterproof coating for concrete surfaces. It can be used above or below the grade.

### Benefits

- Easy application
- Polymer modified
- Excellent resistance to strong hydrostatic pressure, both negative and positive sides
- Excellent freeze/thaw resistance

### Areas of Use

Costar 1k can be applied on Concrete, brick and block foundations and retaining walls, wastewater tanks etc. Applied interior/exterior, above or below grade, positive or negative water pressure side  
It can also be used as a base coat for Costar 2k

### Application Instructions

#### ■ Surface Preparation

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>. 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 leveled in order to achieve an even surface.

#### ■ Mixing and Application

Add the 5 parts of Costar 1K powder to 2 parts of water and mix for at least 3 minutes with a mechanical mixer to a creamy slurry consistency for brush or broom and to a pump-able consistency for spray applications. Costar 1K can be left as a brushed finish, or it can be troweled up by a skilled plasterer to a relatively smooth cementitious finish. Apply the second coat as soon as the first coat has set, but still "green".

### Attention

- Protect application from direct sun and wind to prevent premature surface drying and shrinkage cracks.
- Apply Costar 2k in minimum of two coats
- All surfaces must be saturated surface dry (SSD) but with no standing water, immediately prior to application.
- Apply product with brush or appropriate compressed air spray equipment. Do not use roller.

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### Coverage

Approximate coverage is 8-10 square meters. Coverage is changeable depending on the application type, surface porosity, surface profile, variations in level or wastage etc. It is recommended that at least 2 coats are applied.

### Technical Information

Bulk Density	1.4 Kg/L
VOC	0%
Compressive Strength (ASTM C109)	20.7Mpa
Flexural Strength	20.7Mpa
Drying Time	2-4 hours at 20 °C

### Packaging

Costar 1K is packaged in 20 Kg bags

### Storage and Shelf Life

24 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperature between +20°C and 30°C.

### 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.

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