

COSTAR TOP 20

Low VOC Lithium Silicate based Densifier and Concrete Hardener



PRODUCT DESCRIPTION

Costar Top 20 is a low VOC lithium silicate-based solution used to densify, harden, seal and protect fresh or hardened concrete. It is formulated to work fast while deeply penetrate and reacting with concrete components (pozzolans, cement, and most aggregates) to fill micro voids and allow concrete to polish faster while improving water and stain resistance.

BENEFITS

- A low cost treatment for exposed concrete surfaces
- Easy to use and fast drying
- Residue-free surface allows bond of various paints, adhesives or toppings
- Low odor and non-yellowing
- No solvent vapors
- Improved abrasion and chemical resistance
- Excellent dustproofing properties
- Improves cleanability

USES

Costar Top 20 is recommended for use on old and new concrete surfaces such as factories, texture mills, warehouses and areas where concrete floors are subjected to both light and heavy traffic.

APPLICATION

New Concrete

After the curing period has elapsed, apply two or more uniform coats at the rate of 3-4 m²/L as needed. Allow a minimum of 4 hours between coats. Redistribute any excess Costar Top 20 with soft broom or microfiber pad, allowing material to dry uniformly. Under certain conditions application to fresh concrete may be necessary. In this case apply a uniform coat after final troweling and when surface water glaze is gone, but before application of a

dissipating curing compound.

Remove any puddles or excess accumulation with soft broom or microfiber pad, allowing material to dry uniformly.

Old Concrete

- Surfaces must be sound and clean. All residue, oil, sealers, waxes, contaminants and laitance must be removed from surfaces for maximum penetration. Remove unsound concrete and repair holes, cracks and deteriorated areas.
- Apply two or more uniform coats at the rate of 3-4m²/L each coat as needed. Allow a minimum of 4hours between coats.
- Redistribute any excess Costar Top 20 with soft broom or microfiber pad, allowing material to dry uniformly.
- Avoid brooming once drying begins.
- Provide adequate ventilation in enclosed areas to facilitate proper drying.
- After drying remove any excess, powder-like residue with a stiff broom or dry buffer. Do not puddle.

MAINTENANCE

A mechanical walk-behind or ride-on scrubber is an efficient and economical means of regularly cleaning concrete floors. Only soft scrubbing or soft brush attachments should be used when mechanically scrubbing your floor. Do not use aggressive abrasive pads or brushes. The use of black scrubbing pads, diamond impregnated pads or carbide impregnated type brushes may dull the surface gloss. Wet mops work well on small floors or places where a mechanical scrubber will not fit.

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TECHNICAL PROPERTIES

Packaging	20L, 210, 1000L	
State	liquid	
Coverage	6 – 8m ² /L/coat	
Shelf life	12 month from date of production	
Density	1.30g/cm ³	
Properties	Standard	Costar top 10 performance
Curing efficiency water retention	ASTM C 156	Loss of water : 0.43kg/m ²
Capillary water absorption	EN 10623	25.51% better than untreated concrete
Abrasion resistance	EN 128082	23% better than untreated concrete
Pull of test	EN 1542	34.34% better than untreated concrete

SHELF LIFE

Shelf life is 12 months provided the temperature is kept within the range of 5°C to 50°C.

STANDARD COMPLIANCE

Conforms to the requirement of EN 1062-3 and ASTM C 156

LIMITATION

- Apply when concrete surface temperatures are 40°F (4°C) and rising
- Provide adequate ventilation in enclosed areas to facilitate proper drying
- Do not puddle

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.