

COSTAR SUPERBOND 5

General-purpose economic adhesive, sealer and mortar improver



PRODUCT DESCRIPTION

Costar Superbond 5 is polyvinyl alcohol stabilized, externally plasticized, vinyl acetate homopolymer. It contains no harmful phthalates. It is suitable for use as general-purpose economic adhesive, sealer and mortar improver. It can be used with Portland cement and sand to form high strength mortars for the fixing of ceramic, wall, floor, marble, natural or artificial stone and as a primer-sealer.

BENEFITS

- Improves resistance to impact, thermal shock and compressive strength.
- Gives smoother trowelled finish.
- Promotes better bond strength between aggregate of the mortar screed.
- Improves flexibility.
- Increased adhesion to a wide range of substrates including wood, concrete, glass.
- Reduces surface porosity of mortar mix.
- Improves the workability of screed and mortar mix.
- Improved frost resistant.
- Good chemical resistance.
- Improves waterproof properties of mortar / screed.

APPLICATION AREAS

- Enhance the property of sand/cement mortars for tiling.
- Can be used as a wood adhesive.
- Can be used as an internal filler when mixed with wood shavings or plaster.
- Wherever increased abrasion, water and chemical resistance is required.
- Can also be used to improve adhesion in floor screed and topping.

APPLICATIONS INSTRUCTION

Surface preparation

- Surfaces should be dry and free from previous coatings, contaminants and loose material.
- Very smooth concrete or concrete with soft laitance should be etched.
- Grease or oil should be removed and the area thoroughly washed off and allowed to become completely dry.
- Dampen the surface and ensure to remove standing water till SSD is achieved.

For Use in Priming & Sealing.

Costar Superbond 5 should be diluted 4 parts water : 1 part emulsion to seal the surface in preparation for further coating where the emulsion is to be used on porous substrates such as old concrete and plaster.

For Use as a Bonding agent.

To bond plaster, the emulsion should be used undiluted and brushed onto the surface to be plastered. Fresh plaster should be applied before the emulsion dries.

Mixing

- All steel reinforcement and formwork should be prepared, cut to size & shape, and made ready for assembly before mixing commences.
- Ensure that the quantity to be mixed at once does not exceed 25kg.
- Premix sand and cement for about one minute before adding the desired quantity of Costar Superbond 5. (Premixed with water if necessary) and then mix for 3-4minutes. Ensure to protect mixture from direct sunlight.

Application

For use as a bonding agent for plaster, Costar Superbond 5 should be used undiluted and brushed onto the surface to be plastered. Fresh plaster should be applied before the emulsion dries.

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TECHNICAL PROPERTIES

Packaging	20kg, 210kg
Appearance	White liquid
Shelf life	12 months from date of production
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +35 °C.
PH	4.5 - 6.5
Minimum Film forming temperature	-2°C to +4°C
Density	1.09 g/cm ³
Chloride content	Nil (EN-934-2)
Application temp	Minimum 10° C Maximum 30° C
Substrate temp	+5 °C min. / +35 °C max
Solid content	(31 – 39)%
Shrinkage during cure	0.01%

Note: The Values provided above are those achieved under controlled Laboratory conditions with cement and sands of known quality. Different results may be obtained under site conditions.





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STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

LIMITATIONS

Superbond 20 should not be used when the temperature is below 50C and falling. Do not exceed the maximum recommended water content and only use clean potable water. If any doubts arise concerning temperature or substrate conditions, consult your local Costar Building Product office.

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.*

STANDARD COMPLIANCE

Conforms to the requirement of EN1504-3

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.

