

COSTAR SUPERBOND 20

Two-Component Epoxy Bonding Agent



PRODUCT DESCRIPTION

Costar Superbond 20 is a two-component epoxy bonding material ready for on-site mixing and use. The product is ideal for roads, bridges, pavements, loading bays and factories, and for bonded or granolithic floor toppings. It is equally suited to internal and external applications. Costar Superbond 20 conforms to ASTM C881: Type II, grade 2, class C.

BENEFITS

- Easy-to-use for bonding/grouting applications
- Can be applied on to dry or damp substrates
- Exhibits high mechanical strength and bonding strength
- Slow cure allows time to erect steel reinforcement and formwork
- Excellent adhesion to most structural materials

APPLICATION AREAS

- For bonding of fresh, plastic concrete to existing cementitious surfaces.
- For use on horizontal surfaces or on vertical surfaces where mortar or concrete can be supported by formwork.
- Suitable for internal and external applications
- Ideal for roads, bridges, pavements, loading bays and factories etc.

APPLICATIONS INSTRUCTION

Surface Preparation

Surfaces should be dry and free from previous coatings, contaminants and loose material and at least four weeks old. 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.

Mixing

Any steel reinforcement and formwork should be prepared, cut to size & shape, and made ready for assembly before mixing commences.

Mix the hardener and base components separately before mixing to avoid settlement. Pour the hardener into the base, and then mix the two together using a slow-speed drill and mixing paddle for 2 minutes until the color is uniform. Be sure to scrape the sides of the mixing container and mix further for 2 minutes.

Application

- Apply Costar Superbond 20 immediately after mixing with brush or roller to the prepared substrates.
- Ensure even application on prepared substrate.
- New concrete, screed or mortar should be placed when Costar Superbond becomes tacky.
- The maximum overlay time is 10 hours at 35°C, be sure to observe the overlay time to avoid hardening of the product.
- In case the overlay time is missed, Costar Superbond 20 should be mechanically removed for application of freshly mixed product.
- As soon as Costar Superbond 20 has been applied, any required steel reinforcement and/or formwork should be erected and fixed securely in place.
- Costar Superbond 20 should be removed from tools, equipment and mixers.

COVERAGE

Costar Superbond 20 covers approximately 3-4 m²/liter. However, actual coverage of product will be determined on site due to wastage and other factors.

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TECHNICAL PROPERTIES

Packaging	Two component (Part A 2.5Kg + Part B 2.5Kg = 5Kg)
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.
Mixing ratio	Mix as packed
Application temp	Minimum 10° C Maximum 30° C
Drying time	10 -12 hours at 20° C light traffic 7 days to achieve full chemical & mechanical resistance ASTM C109
Compressive strength	63MPa
Tensile strength	9MPa
Open time	Approximately 85 minute@20°C and 45minute@35°C
Substrate temp	+5 °C min. / +35 °C max

CLEANING

Costar Super bond 20 should be removed from tools, equipment and mixers immediately after use. Hardened material can be removed mechanically.

Limitations

- Costar Superbond 20 should not be applied when the temperature is below 5°C or is 5°C and falling.
- If any doubts arise concerning temperature or substrate conditions, contact Costarchem technical Support office before

the application of any repair material or topping.

- Costar Superbond 20 should be allowed to become tacky after its application to the host substrate.
- Observing the setting time of Costar Superbond 20, care should be taken when the product is used in cold conditions and or when the material being subsequently applied to the Costar Superbond 20 is rapid setting.



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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.

