

COSTAR SUPERBOND 20

Two-Component Epoxy Bonding Agent

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.

Application Instructions

■ 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

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 350C, 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.

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Technical Information

Test Method	Typical Result
Maximum Overlay Time	15 hours @25°C
	10 hours @35°C
Minimum Overlay Time	Tacky
Working Life	150 minutes @25°C
	70 minutes @35°C
Full Curing Time	3-5 days @35°C
Water Absorption	0.05%
Compressive Strength (ASTM D695)	65N/mm ²
Tensile Strength (ASTM 638)	30N/mm ²
Shear Strength (BS6319, Part 4)	36N/mm ²

Theoretical 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.

Shelf Life

Costar Superbond 20 has a shelf life of 12 months if kept in a dry store in the original unopened packs.

Storage Conditions

Store in dry conditions in the original unopened packs. If stored at high temperatures, the shelf life may be reduced.

Health and Safety

- Avoid Contact with eyes and skin
- If skin contact occurs, wash skin thoroughly
- Wear Protective gloves and eye protection during work
- If In eyes, hold eyes open, flood with warm water and seek medical attention immediately

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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