

BONDING AGENTS AND PRIMERS



Vetobond EB430

Solvent-free epoxy bonding agent (to bond old concrete to new one)

Uses

- To connect existing concrete to new one.
- To eliminate cold joints as a result of casting stops.
- As a primer for bonding cementitious repair materials (Vetorep range of products).
- To bond cementitious screeds to concrete substrates.

Product Description

Vetobond EB430 is based on solvent-free epoxy resins. It contains pigments and fine fillers and is supplied as a two-component and pre-weighed product that's ready to use and mix on-site. Vetobond EB430 is suitable for external and internal applications (on both horizontal and vertical surfaces) wherever mortar or concrete can be supported by a type of formwork. The long 'open' life makes it suitable for formwork or where additional steel reinforcement is needed. The product is ideal for roads, bridges, pavements, loading bays, factories, and bonded or granolithic floor toppings.

Advantages

- Adhesive bond to concrete will always exceed the tensile strength of the host concrete.
- Suitable for use on damp and dry concrete.
- Odorless and non-flammable (remains tacky for 48 hours at 22°C).
- Resistant to hydrolysis (making it ideal for external and internal applications).
- High mechanical properties.
- Excellent bond to concrete, masonry, stonework, plaster, and cement boards.

Design Criteria

Vetobond EB430 has an overlay time of 24 hours at 22°C, 12 hours at 30°C, or 8 to 10 hours at 35°C, making it more suitable for use where additional steel reinforcement and formwork has to be fitted or where temperatures are high.

Standards Compliance

- ASTM C881, as Type I, II, III, IV & V, Grade 3, Class B & C

Technical Data

Vetobond EB430	Typical Values @ 22°C
Color	Clear
Pot Life (Hours)	3
Mix Density (kg/liter)	1.06
Mix Viscosity (cP)	1095
Initial Hardness (Hours)	48
Full Cure Time (Days)	7
Maximum Overlay Time (Hours)	24
Compressive Strength ASTM D695 (N/mm ²)	> 70
Tensile Strength (EN13286) (N/mm ²)	20
Flexural Strength (BS6319) (N/mm ²)	35
Shear Strength (BS6319) (N/mm ²)	25
Bond Strength - ASTM C882 (N/mm ²) @14 days (moist cure)	10

Note: At temperatures below 22°C, the curing rate will be slower. Conversely, at temperatures above that, the curing rate will be faster.

Usage Instructions

Surface Preparation

Clean all surfaces and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits, or algae. Roughen the surfaces, remove any laitance and expose aggregate by light scabbling or grit-blasting. Remove oil and grease deposits by steam cleaning, detergent scrubbing, or using a proprietary degreaser.

A pull-off test should then assess the effectiveness of decontamination and the soundness of the substrate. Any steel reinforcement and formwork should be prepared, cut to size and shape, and made ready for assembly before mixing begins.

Mixing

The Vetobond EB430 mix must be mixed thoroughly.

To begin, stir the 'hardener' and 'base' components separately before mixing them together (to disperse any settling material). Pour the entire content of the 'hardener' tin into the 'base' tin. Mix the two materials thoroughly using a suitable slow-speed drill and mixing paddle for 2 minutes until a fully uniform color can be seen. Scrap the sides of the tin, and continue mixing for another minute. Slowly add the Reducer part and mix for 3 additional minutes.

To facilitate mixing and application at temperatures below 22°C, the separate components should be warmed in hot water up to a maximum temperature of 25°C before beginning to mix. If heated to 25°C, the subsequently mixed material will need to be used more speedily as the pot-life will be reduced to 4 hours. Alternatively, Store the material in an environment heated to 22°C and take the stock directly from the store immediately before use.

Application

Apply Vetobond EB430 as soon as the mixing process is completed. Brush Vetobond EB430 or spray it onto the prepared surfaces. The new concrete or screed may be applied to the coated substrate in up to 24 hours after the application (at 22°C or up to 12 hours at 30°C, or between 8 to 10 hours at 35°C). However, you should leave the coated substrate for 1 hour before placing the new concrete or screed.

Your goal is to achieve an unbroken coating if you're using Vetobond EB430 as part of a repair system to form a substrate/repair barrier. Apply one coat and allow it to turn to gel. Apply a second coat and use it as the bonding

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coat. In some situations (e.g., sprayed concrete repairs), it may be advantageous to scatter dust-free sharp sand over this coat and leave it to harden. As soon as the Vetobond EB430 has been applied, any required steel reinforcement and/or formwork should be elected and fixed securely in place.

Cleaning

Remove Vetobond EB430 from tools, equipment, and mixers with Vetonit Solvent 1 immediately after use. Hardened material can only be removed mechanically.

Packaging & Coverage

Product	Pack Size	Consumption
Vetobond EB430	5 Liter Kit	5 - 8 m ² /ltr

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, consistency used, method of application, and wastage.

Shelf Life & Storage

The original sealed container of Vetobond EB430 has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place. and at a temperature below 35°C.

Health & Safety

Vetobond EB430 should not come in contact with your skin or eyes. It should not be swallowed as well. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, gardeners, and solvents.

Wear suitable protective clothing, gloves, and eye protection. Suppose working in confined areas, use suitable respiratory protective equipment. The use of barrier creams provides additional skin Protection.

In case of skin contact, remove immediately with a resin-removing cream followed by a thorough wash with soap and water. Do not use solvents. In case of contact with your eyes, rinse immediately with plenty of clean water and seek medical attention. If swallowed, seek medical attention immediately – do not induce vomiting. Vetobond EB430 is non-flammable. Refer to the product Material Safety Data Sheet for more information.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.