

CONCRETE REPAIR



Vetorep CR526

High-strength & fine structural repair mortar

Uses

- To repair broken structural concrete elements.
- For vertical concrete repairs (up to 40 mm in a single layer).
- For overhead concrete repairs (up to 20 mm in a single layer).
- For horizontal & patch repairs (up to 50 mm in a single layer).
- For general curbstone & concrete repairs.

Product Description

Vetorep CR526 is a single-component, polymer-modified, fiber-reinforced & cementitious structural repair mortar. It is ready to use and only requires adding water on site.

Once mixed, the product becomes a thixotropic mortar that can be hand-applied & used to make demanding structural repairs. It is also compatible with most host concrete types. Vetorep CR526 is composed of a special blend of hydraulic cement, selected and graded aggregates, fibers, and the additives that give it its unique properties.

Advantages

- Easy to use (a single component product).
- High physical & mechanical properties.
- Extremely low permeability (It provides reinforcement protection against corrosion as well as resistance to ingress of contaminants).
- Non-Shrink properties (this ensures the dimensional stability of the repair work).
- Suitable for internal & external applications.
- Breathable & compatible with most host concrete.
- Thixotropic properties (this allows high build-up in vertical and overhead repairs).

Standards Compliance

- EN 1504-3, Class R3

Design Criteria

Vetorep CR523 (a cementitious fairing coat) is designed for vertical & overhead use to infill honeycombing & voids up to 3 mm deep in concrete surfaces. It can be applied as a render at thicknesses ranging between feather-edge & 3 mm. It can also be used to fill blowholes (up to 5 mm deep & 3 mm wide).

Technical Data

Vetorep CR526	Typical Values
Color / Appearance	Grey / Granular
Aggregate Size (mm)	0.7
Pot Life (EN ISO 9514) (Minutes)	30 - 60
Initial Setting Time (EN 196-3) (Hours)	3
Final Setting Time (EN 196-3) (Hours)	4
Application Temperature (°C)	5 - 35
Fresh Mixed Density (kg/ltr)	2.1 Approx.
Compressive Strength (EN 12190) @ 28 days (MPa)	30
Adhesive bond (EN 1542) @28 days (MPa)	> 1.4
Drying Shrinkage - ASTM C157 (Microstrain) @ 7 Days	< 300
@ 28 Days	< 500
Water Penetration (DIN 1048) (mm)	< 5
Flexural Strength - ASTM C348 (EN196-1) @ 28 Days (MPa)	> 5
Tensile Strength - ASTM C30 @ 28 Days (MPa)	> 1.5
Chloride ion Content (EN 1015-17) (Columbs)	< 500
VOC Content - ASTM D2369 (gm/ltr) (LEED Compliant)	<10

Usage Instructions

Surface Preparation

Cut back all damaged and weak concrete to reach sound concrete and/or until a minimum depth of at least 10 mm is reached.

Grit blast corroded steel reinforcement to remove all rust traces. In case of significant loss in the steel reinforcement cross-section, replace the steel entirely. Remove all concrete forms around the exposed steel reinforcements by a thickness of 25 mm. Saw cut the perimeters of the repair area to a minimum depth of 10 mm. Clean the prepared area thoroughly using a brush and/or compressed air.

Priming

Prime all grit blasted steel reinforcements within 2 to 4 hours with one or two coats of Vetoprime CP436. Soak the areas to be repaired with clean water before applying the repair mortar. Remove all excess water before applying one coat of acrylic bonding agent Vetobond AB432. Allow Vetobond AB432 to become tacky before applying the repair mortar.

Mixing

Use a mechanically powered mixer or a drill fitted with a suitable paddle to ensure proper mixing. Add 2.8 to 3 liters of clean water to a clean container. Add the powder slowly to the water while mixing continuously with a low-speed mixer/drill (400 - 600 rpm). Continue mixing for 5 minutes until a uniform consistency is achieved.

Placing and Finishing

Apply Vetorep CR526 by trowel or hand. Fully compact the mixed mortar into the substrate by firm pressure to ensure good adhesion with the steel reinforcements and the substrate. Finish and level the surface initially by a wooden or plastic float. Carry out the final finish using a steel float.

Curing

Vetorep CR526 is a cementitious-based material, so you can cure it similarly to concrete. Curing can be done using Vetobond AB432 or by continuous watering & covering with polyethylene sheets.

Cleaning

Clean all tools with freshwater immediately after application. Clean hardened materials mechanically.

Legal Disclaimer

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Hard copies of TDSs are printed once or twice a year. Our technical data sheets are continuously updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Limitations

- Apply Vetorep CR526 in a single application for sections up to 50 mm thick in overhead applications, and 75 mm thick in vertical applications. The thickness should not be less than 10 mm deep in all cases.
- Vetorep CR526 repair area should not exceed 2.5 m² in a single application.

Packaging & Coverage

Product	Pack Size	Consumption
Vetorep CR526	25 kg Bag	20 Liters (Approx.)
Vetobond AB432	4 Liter Can	6-8 m ² / Liter
Vetoprime CP436	2 kg Kit	1.18 m ² / 2 kg Kit @ 1 mm
	4 kg Kit	2.35 m ² / 4 kg Kit @ 1 mm

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

Shelf Life & Storage

The original sealed bag of Vetorep CR526 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place at a temperature less than 35°C.

Health & Safety

Vetorep CR526 contains resins (which may cause sensitization via skin contact). Avoid contact with your skin and eyes and do not inhale vapor. Wear suitable protective clothing, gloves, and eye/face protection.

Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin-removing cream, followed by soap and water. Do not use solvents. In case of contact with your eyes, rinse immediately with plenty of clean water & seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting. Vetorep CR526 is non-flammable.

Additional Information

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

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