

CONCRETE REPAIR



Vetorep CR523

Single-component (cementitious) fairing coat

Uses

- To repair concrete surface blemishes (from feather edge to 3 mm thick).
- It unifies concrete surface color.
- To cosmetically fill plaster & concrete hair cracks.
- To fill blow holes up to 5 mm.
- As a final finish in industrial structures (such as parking garages, retaining walls, etc.).

Product Description

Vetorep CR523 is a single-component, polymer-modified, cementitious fairing coat. It is ready to use and only requires adding water on site.

Once Vetorep CR523 is mixed, the product becomes a smooth paste & it can be used to repair surface imperfections up to 3 mm thickness. It's also compatible with most host concrete types.

Vetorep CR523 is composed of a special blend of hydraulic cement, selected fine fillers, and additives that give this product its unique properties.

Advantages

- Easy to use (a single-component product).
- Breathable & compatible with most host concrete types.
- Self-priming (no need for an independent primer).
- Self-curing.
- Chloride-free.

Standards Compliance

- EN 1504 - 3 , Class R1

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 CR523	Typical Values
Appearance	Grey Powder
Pot Life (EN ISO 9514) (Hours)	5
Initial Setting Time (EN 196-3) (Hours)	6
Final Setting Time (EN 196-3) (Hours)	6.5
Application Temperature (°C)	5 - 35
Chloride ion Content (EN 1015-17)	N/A
Fresh Wet Density (kg/ltr)	1.65 Approx.
Compressive Strength (EN 12190) @ 28 Days (N/mm ²)	> 10
Flexural Strength (ASTM C348 & EN 196-1) @ 28 Days (N/mm ²)	> 2
Adhesive Bond (EN 1542) @ 28 Days (N/mm ²)	> 1
Capillary Absorption / Water Permeability (EN 13057)	N/A
Maximum Aggregate Size (mm)	0.1
VOC Content (ASTM D2369) (gm/ltr)	< 10 (LEED Compliant)

Usage Instructions

Surface Preparation

All surfaces should be clean, sound, and uncontaminated before applying Vetorep CR523. Clean the prepared area thoroughly using a brush and/or compressed air (Soak the prepared area with water immediately before applying Vetorep CR523).

Mixing

To ensure proper mixing, use a mechanical power mixer or a drill fitted with a suitable paddle. (For small quantities, Vetorep CR523 can be hand mixed using the proper tools and a bucket).

Pour 7.5 - 8.5 liter of fresh water into a clean container, then add the powder slowly while continuously mixing (with a low-speed mixer/drill, 400 - 600 rpm). Continue mixing for 3 minutes until a uniform consistency is achieved. Leave the mixture for 5 - 10 minutes to mature and then remix for 30 - 60 seconds without adding more water.

To enhance the scratch resistance of Vetorep CR523, we recommend adding Vetobond PB434. Consult your closest Saveto representative for further information.

Placing and Finishing

Vetorep CR523 can be applied using a steel trowel. Apply a layer of the mixed mortar (3 mm thick) to the prepared substrates. Allow the applied mortar to stiffen before trowelling to a smooth finish.

Blowholes or bug holes might have a larger size, so fill the cavities gradually to ensure it's filled well and it fits the repair of the hole (if it is deeper & wider than 5 mm or to a maximum thickness of 10 mm).

Curing

Vetorep CR523 does not require curing in normal ambient conditions. In harsh weather conditions, such as high wind and temperatures, it is recommended to cure it with Vetobond AB432.

Cleaning

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

Legal Disclaimer

Saveto endeavors to ensure that any advice, recommendations, information it may give is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products because it has no direct or continuous control over where or how its products are applied, whether or not following any advice, specification, recommendation, or information given by us. Saveto has the right to change any of the technical datasheets specifications upon its discretion without prior notification.

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.

Packaging & Coverage

Product	Pack Size	Consumption
Vetorep CR523	25 kg Bag	20 Liters (Approx.)

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 CR523 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 CR523 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 CR523 is non-flammable. For more information, please refer to the Product Material Safety Data Sheet.

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.