

Vetorep ER351

Epoxy putty, sealing, anchoring and leveling compound



Uses

- Repair of concrete surface pores, blemishes at a thickness from feather edge.
- Sealing of surface cracks in aggressive environments and injection repairs.
- Leveling of surface imperfections and irregularities before application of Saveto resinous coatings and toppings range.
- Fixing and bedding of tiles, dowels, and anchors.

Product Description

Vetorep ER351 is a two-component epoxy-based thixotropic solvent-free compound. Once mixing the kit components, the product becomes a smooth paste used to repair surface imperfections and irregularities, fill blow holes and pores while being completely impermeable, and have excellent adhesive and bonding properties. The product's thixotropic nature allows it to function in vertical and overhead situations without sagging while maintaining an excellent bond.

Advantages

- Smooth paste consistency that is non-slump.
- Chemically resistant compound.
- Superior bond to a wide range of substrates.
- Compatible with most coating and topping types.
- Extremely effective in cases of low reinforcement steel-concrete cover.
- Economic and general purpose.

Technical Data

Vetorep ER351	Typical Values
Solid Content (weight)	100 %
Pot Life	2 - 3 hours @ 22°C
Fresh Mixed Density	Approximately 1.6 kg/ltr
Compressive Strength ASTM C579, @ 7 days	70 MPa
Tensile Strength ASTM C579, @ 7 days	12 MPa
Flexural Strength BS 6319-3, @ 28 days	23 MPa
Bond Strength ASTM C882	> 2 N/mm ² @ 20°C (Concrete Failure)
VOC Content ASTM D2369	< 40 gm/liter (LEED Compliant)
Application Thickness	Up to 3 mm in a single layer
Recoat Time	24 hours
Full Cure	7 days

Usage Instructions

Surface Preparation

The surface must be structurally sound, free from oil, grease, and other forms of contamination. The concrete surface should be dry and suitably prepared either by scabbling or grit blasting to remove any surface laitance.

Grit blast steel surfaces to remove all rust and scale.

Mixing

Vetorep ER351 comprises two components, a resin Base and a Hardener, supplied preweighed in the correct proportions. Under no circumstances should part mixing be carried out. When required for application, mix the two components well until obtaining a uniform consistency and color; this should be ideally carried out using a mechanical mixer.

Application

For bonding concrete sections, apply an even coating of the product to both surfaces, and bring it together under light pressure. Remove any excess paste which exudes from the joint. Trowel the joint to a neat finish. Protect the assembled sections from movement until the resin sets. When using Vetorep ER351 as a bonding primer in the vertical or overhead position, apply an even layer of Vetorep ER351 to the surface and press it well to ensure good contact. Place the material to be bonded after approximately 1 hour at 20°C. (This time refers to the total elapsed time from mixing the product). For patch repairs, apply Vetorep ER351 to the surface and finish it to levels. Aid a smooth surface by wetting the trowel sparingly with Vetonit Solvent XX400. Apply Vetorep ER351 to cracks or inaccessible areas using a sealant gun.

Vetorep ER351 has a working time of approximately 2 - 3 hours at 22°C. Leave the mixed material to stand for any length of time before application, as this will considerably reduce its working time.

Curing

Allow Vetorep ER351 to cure for 24 hours at 20°C before being subjected to foot traffic. At the same temperature, full mechanical and chemical properties are achieved after 7 days (please consult the Saveto Technical Department for further details about curing times at other temperatures).

Cleaning

Clean uncured material with Vetonit Solvent XX400. Remove cured material 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 ER351	5 kg kits	3 m ² /5 kg @ 1 mm thickness

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 kit of Vetorep ER351 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded temperature-controlled place <35°C.

Health & Safety

Vetorep ER351 Contains resins that may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of 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 solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.

Vetorep ER351 is non-flammable.

Vetonit Solvent XX400 is flammable. Do not expose to direct flame, and keep away from heat sources.

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.

Saveto also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals, product selectors and technical support both in contractors and consultants offices as well as construction sites.