

Vetorep ER430

Epoxy-based repair compound for asphalt cracks (Pitch extended)



Uses

- To repair asphalt cracks in highways, aprons, and pavements.
- To reinstate asphalt integrity while maintaining flexibility.
- For road bridges, helicopter decks, work platforms, car parks, walkways, wet work industrial areas, and cargo handling areas.

Product Description

Vetorep ER430 is a two-component epoxy-based thixotropic solvent-free and fast strength-development repair compound. Once the kit components are mixed, the product becomes a flexible & abrasion-resistant mortar. When poured into asphalt cracks, it sets and bonds perfectly to the asphalt substrate.

Advantages

- Rapid strength development.
- Chemically resistant.
- Superior bond to a wide range of substrates.
- Compatible with most line marking coatings.
- Abrasion-resistant (for heavy-duty applications).
- Cures in damp conditions.

Standards Compliance

- EN 13062
- EN 1504-3

Design Criteria

Vetorep ER357 shall be applied in a checkerboard fashion, at a minimum thickness of 3 mm. The use of

Vetorep ER357 in a single layer shall conform to:

- Vertical application up to 12 mm.
- Horizontal concrete repair up to 75 mm.

Technical Data

Vetorep ER430	Typical Values @ 20°C
Color	Black
Volume of Solids (%)	100
Working Time @ 25 °C (Minutes)	45
Mixed Density (kg/ltr)	Approx. 1.1
Compressive Strength - ASTM C579 @ 7 Days (MPa)	35
Tensile Strength - ASTM C579 @ 7 Days (MPa)	9
Flexural Strength BS 6319, Pt3 @ 28 Days (MPa)	28
Adhesive Bond (EN 1542) on following surfaces: - Concrete - Asphalt - Steel	> Asphalt cohesive strength
Initial Hardness (Hours)	16
Full Cure (Days)	7
Water Penetration (DIN 1048)	Nil
VOC Content - ASTM D2369 (gm / Liter)	< 50 (LEED Compliant)
Service Temperature (°C)	-20 to +70
Application Temperature (°C)	+5 to +35

Continuous immersion chemicals	Resistance
Hydrocarbon Fuels	Resistant
Jet Fuel	Resistant
Hydraulic Fuels & Oils	Resistant
Petrol	Resistant
De-Icing Salts	Resistant

Usage Instructions

Surface Preparation

Clean the surface and remove any loose particles; use compressed air for effective cleaning.

Mixing

Mix the Vetorep ER430 kit thoroughly to produce a fully-homogeneous & flowable mortar.

Vetorep ER430 must be mixed mechanically. Stir the hardener and base components separately to disperse any settled material before mixing them together.

Empty the entire hardener container's contents into the base container and mix well for 3 minutes, then empty the mixture into a forced action mixer of adequate capacity. Add the aggregate slowly while the mixer is running and continue mixing for 2 to 3 minutes until all the components are fully blended. Do not mix partial quantities.

Note: It is recommended to use a slow-speed heavy-duty drill fitted with a purpose mixer.

Application

Pour the mixed mortar into the prepared substrate until the cracks are filled. Allow the material to set for 16 hours at 25°C before allowing foot traffic and 48 hours before allowing heavy traffic. In case of the ambient temperature of 35°C, vehicular traffic can commence after 30 hours.

Low temperature working

Vetorep ER430 can be applied in cold conditions (down to 12°C). The material should not be applied when the substrate and/or air temperature is at 12°C or below. However, you can apply the product at 12°C static temperature or 12°C and rising.

However, it is highly recommended to apply the products at temperatures above 15°C to avoid practical application impediments.

High temperature working

At ambient temperatures above 35°C, Vetorep ER430 will have a shorter pot time. Store the material in the shade or in an air-conditioned environment. Do not apply under direct sunlight.

Cleaning

Remove Vetorep ER430 from tools, equipment, and mixers with Vetonit Solvent XX400 immediately after use.

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

- Vetorep ER430 should not be used when the temperature is below 10°C and falling.
- Do not mix partial quantities.
- If in doubt about the temperature or substrate condition, consult your local Saveto office.

Packaging & Coverage

Product	Pack Size	Consumption
Vetorep ER430	5 Liter Kits	5 m ² @ 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 ER430 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded temperature-controlled environment (less than 35°C).

Health & Safety

Vetonit Solvent XX400 and Vetorep ER430 should not contact the skin, eyes. They shouldn't be swallowed as well. Ensure adequate ventilation and avoid inhalation of vapor. Some people are sensitive to resins, hardeners, and solvents. Wear suitable protective clothing, gloves, and eye protection. Use barrier creams for additional skin protection. In case of contact with your eyes, rinse immediately with plenty of clean water and seek medical attention immediately. If swallowed, seek medical attention immediately. Do not induce vomiting.

Vetorep ER430 is non-flammable. However, Vetonit Solvent XX400 is. Keep away from sources of ignition. And avoid smoking around it. In the event of a fire, extinguish with CO₂ or foam. Do not use a water jet.

For further information, refer to the Product Material Safety Data Sheet.

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.