



Vetorep ER357

Abrasion resistant epoxy based lining mortar

Uses

- Manhole lining & benching.
- Rapid repairs in floors and walls.
- Repair of stair treads.
- Horizontal, vertical and overhead repairs.

Product Description

Vetorep ER357 is a three component system consisting of solvent free epoxy resins together with a special blend of fillers to provide a trowel grade epoxy mortar. The mixed mortar can be used for horizontal and vertical applications. The chemical resistance properties make Vetorep ER357 suitable for application as the lining to sewerage manholes, the product can also be used for repair of stair treads.

Advantages

- Rapid strength development commissioning in 2 days, full cure in 7 days.
- Chemically resistant mortar.
- Excellent bond to concrete.
- High impact and abrasion resistance.
- Cures in damp conditions.
- Provides a waterproof lining to manholes.
- Cost effective.
- Used over Vetoproof CR747 to provide a permanent solution to water leaks.

Standards Compliance

- EN 13062:2003
- EN 1504:2013
- EN1992:2006

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 ER357	Typical Values@ 20°C
Volume of Solids	100%
Working life	2 hours
Fresh Mixed Density	Approximately 2 kg/ltr
Compressive Strength ASTM C579, 7 days	95 MPa
Tensile Strength ASTM C579, 7 days	16 MPa
Flexural Strength BS 6319, Pt3	47 MPa @ 28 Days
Bond Strength	> 2 MPa (Concrete Failure)
Initial Hardness	24 Hours
Full Cure	7 Days
Water Penetration DIN1048	Nil
VOC Content ASTM D2369	<10 gm / Liter (LEED Compliant)

Continuous immersion chemicals	Concentration %	Resistance
Bleach	-	Resistant
Petrol	-	Resistant
Sodium Hydroxide	15	Discoloration
Sodium Chloride	20	Resistant
Sulphuric Acid	15	Discoloration

Usage Instructions

Surface Preparation

Surfaces should be clean and structurally sound. Any loose or unsound brick or concrete should be removed. Surfaces must be entirely free of oil, grease, paint, detergents rust or other contaminants. The surface should preferably be abraded by light sand blasting followed by thorough rinsing to remove dust.

Where a rough surface is difficult to obtain, Vetoprime EP490 should be used to prime the surface. Vetorep ER357 should be applied while the primer is still tacky.

Mixing

The 'hardener' and 'base' components should be stirred thoroughly to disperse any settlement before mixing them together. The entire contents of both components should be emptied into a clean container and mixed thoroughly for 2 minutes using a heavy duty, slow speed drill fitted with a spiral mixing paddle. Once a uniform color and consistency is achieved, slowly add the aggregate, continuing to mix until all the components are thoroughly blended.

Application

Apply the mixed Vetorep ER357 to the prepared substrate using trowel. To avoid sagging on vertical and overhead surfaces, do not apply the mortar greater than 12 mm per layer. If greater builds are required, do not close the surface of the first layer, apply Vetoprime EP490 after a minimum waiting time of 18 hours and then apply second layer whilst primer is still tacky.

Cleaning

Vetorep ER357 should be removed from tools, equipment and mixers with Vetonit Solvent XX400 immediately after use.

Packaging & Coverage

Product	Pack Size	Coverage
Vetorep ER357	15 Liters kit (Approx. 32.5kg)	15 Liters Yield
Vetoprime EP490	4 Liters Kit	7 to 9 m ² / Liter

Stated coverage values are theoretical and may change depending on various factors such as nature of substrate and wastage factors.

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Shelf Life & Storage

Original sealed kits of Vetorep ER357 has a shelf life of 12 months provided it is stored clear of ground in a dry and shaded temperature controlled place <25°C.

Limitations

Vetorep ER357 should not be used when the temperature is below 5°C and falling. Do not mix part packs under any circumstances. Do not thin components with solvent as this will prevent proper cure. The products should not be exposed to moving water during curing.

Health & Safety

Vetoprime EP490, Vetonit Solvent XX400 and Vetorep ER357 should not come into contact with the skin, eyes or be swallowed. When using ensure adequate ventilation and avoid inhalation of vapor. Some people are sensitive to resins, hardeners and solvent. Wear suitable protective clothing, gloves, and eye protection. The use of barrier creams provides additional skin protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention immediately. If swallowed seek medical attention immediately. Do not induce vomiting.

Vetorep ER357 is non-flammable. Vetoprime EP490 and Vetonit Solvent XX400 are flammable. Keep away from sources of ignition. No smoking. In the event of fire, extinguish with CO2 or foam. Do not use a water jet.

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