saveto Construction Materials

vetonit Product Data Sheet

Vetogrout *EG340*

Waterproof dynamic load bearing epoxy grout

Uses

- Grouting & anchoring bridge bearings and pile caps.
- Industrial applications where chemical resistance and rapid strength development is required.
- Under-plate grouting & heavy machine beds.
- Dynamic and cyclic load situations grouting.
- Demanding grout thicknesses up to 200 mm.

Product Description

Vetogrout EG340 is a multi-component grout composed of epoxy resin, hardener and selected aggregates. It is supplied as a pre-weighed packs ready to use on site that required only mixing to produce a free flow precision grout. Vetogrout EG340 is specially formulated for use where heavy dynamic loads exist, high physical and mechanical properties are required with excellent chemical resistance. Typical uses include rail grouting, crane rails, pile cap treatment, bridge bearings, fixing rock bolts and anchors, cavity filling and high speed turbine base grouting.

Advantages

- Free flow characteristics even in thin layers .
- Non-Shrink with high adhesion.
- Low coefficient of thermal expansion.
- Suitable for damp and dry substrates.
- Suitable for repetitive dynamic and cyclic loads.
- Variable fill ratio for optimum flowability and effective bearing area.
- Excellent chemical resistance.
- Tropical formulation suitable for MENA conditions.
- High ultimate and early strength.
- Excellent creep resistance and mechanical properties.
- Wide thickness application range from 10 to 200 mm

Standards Compliance

- Meets API 610 and API 686 standards (American Petroleum Institute).
- ASTM D1763-00 (2013)
- Testing guides as per ASTM D4142-89 (2009)
- EN ISO3673-1:2000, testing per EN ISO 18280:2014

Technical Data

Vetogrout EG340	Typical Values
Elastic Modulus ASTM C580, 7 days	11 KN/mm^2
Pot Life @ 25°C	60 minutes
Linear Shrinkage % ASTM C531, 7 days	0.015
Linear Shrinkage of cured material ASTM D2566	0.0001
Fresh Mixed Density	Approx. 1.7-2.0 kg/Liter
Compressive Strength ASTM C579 (N/mm^2)	> 100 @ 7 days
Flexural strength ASTM C580 (N/mm2)	> 30 @ 7 days.
Tensile Bond BS6319, Pt.7	> 15 MPa @ 7 days
Water absorption ASTM C413	0%
VOC Content ASTM D2369	<10 gm < Liter (LEED Compliant)

Chemical Resistance

Vetogrout EG340 is resistant to oil, grease, fats, most chemicals, mild acids and alkalies, fresh and sea water. Consult Saveto's Technical Department when exposure to solvents or concentrated chemicals is anticipated.

Usage Instructions

Surface Preparation

Substrate

All contact surfaces must be free from oil, grease, free standing water or any loosely adherent material. Concrete surfaces should be cut back to a sound base. All dust must be removed and bolt holes or fixing pockets blown clean of any dirt or debris.

Steel surfaces

All steel surfaces should be shot blasted free of rust and flaky mill scale. Cleaned surfaces may be protected by the application of Vetoprime EP491.

Form-work

The form-work should be constructed to be leak-proof as Vetogrout EG340 product is free flowing grouts. Loss of grout once the material is placed, but not hardened, will result in incomplete filling of the gap.

For free flow grout conditions it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper system should be used.

For deep section placing in inaccessible, extended widths chains may be used to encourage lateral movement and complete filling of the gap, thus eliminating air pockets. For further information please contact Saveto for specific advice.

Mixing

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer until homogeneous.

Pour all the resultant liquid into a container with a capacity of 20-25 liters. Add all the filler provided for the product. Mix using a slow speed power mixer for two minutes or until a uniform color is achieved in the grouts.

Placing

The mixed grout should be poured steadily from one side only to eliminate the entrapment of air.

Continuous grout flow is essential. Sufficient grout must be available prior to starting. The time taken to pour a batch should be regulated to the time taken to prepare the next batch.

Flow Characteristics

The maximum distance of flow is governed by the gap thickness, the head of grout applied and the ambient temperature. The following table gives typical data for flow design.

°C	Gap Thickness (mm)	Hydrostatic Head (mm)	Maximum Flow (mm)
25	50	100	1400
40	50	100	1800
25	80	100	1600
40	80	100	2100

Cleaning

Vetogrout EG340 should be removed from tools and equipment with Vetonit Solvent XX400 immediately after use. Cured material can be removed mechanically.

Packaging & Coverage

Product	Pack Size	Theoretical Yield
Vetogrout EG340	30 Kg Kit	15.0-17.5 Liters

Shelf Life & Storage

Original sealed kits of Vetogrout EG340 has a shelf life of 12 months provided it is stored clear of ground in a dry and shaded place.

Health & Safety

Vetogrout EG340 Contains resins which 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.

Vetogrout EG340 is non-flammable.

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

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