

HIGH PRECISION GROUT



VetogROUT EG340

Dynamic load-bearing epoxy grout (Waterproof)

Uses

- For grouting & anchoring bridge bearings and pile caps.
- For industrial applications where chemical resistance and rapid strength development are required.
- For under-plate grouting & heavy machine beds.
- For demanding grout thicknesses (up to 200mm).

Product Description

VetogROUT EG340 is a three-component epoxy grout. It is composed of epoxy resin, hardener, and selected aggregates. The product is supplied in pre-weighed packs that are ready to use on-site. It merely requires mixing to produce a free-flow precision grout.

VetogROUT EG340 has excellent chemical resistance & is specially formulated for projects where heavy dynamic loads exist. It's also ideal for projects where high physical and mechanical properties are required. 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-Shrinking 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.
- The tropical formulation is suitable for MENA conditions.
- High ultimate and early strength.
- Excellent creep resistance and mechanical properties.
- Wide thickness applications range from 10 to 200 mm.

Standards Compliance

- Meets API 610 and API 686 standards (American Petroleum Institute).
- ASTM D1763
- Testing guides as per ASTM D4142
- ISO 3673-1 testing per ISO 18280

Technical Data

VetogROUT EG340	Typical Values
Color Availability	Black
Modulus of Elasticity (ASTM C580) 7 days	11 kN/mm ²
Pot Life (@ 25°C)	2 hours
Linear Shrinkage (ASTM C531, 7 days) 0.015	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)	> 100 N/mm ² @ 7 days
Flexural strength (ASTM C580)	> 30 N/mm ² @ 7 days
Tensile Adhesion Strength (ASTM C882)	> 15 MPa @ 7 days
Water absorption (ASTM C413)	0%
VOC Content (ASTM D2369)	< 30 gm/liter (LEED Compliant)

Chemical Resistance

VetogROUT EG340 is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and seawater. 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, freestanding water, or any loosely adherent material. Cut back concrete surfaces to a sound base. All dust must be removed, and bolt holes or fixing pockets blown clean of dirt or debris.

Steel Surfaces

All steel surfaces should be shot blasted free of rust and flaky mill scale. Protect cleaned surfaces by applying Vetoprime EP491.

Form-work

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

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

For inaccessible deep-section placing, use extended-width chains to encourage lateral movement and fill the gap completely. This will eliminate air pockets. For further information & specific advice, contact Saveto..

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.

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 before starting. Regulate the time it takes to pour a batch to the time taken to prepare the next batch.

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.

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

Remove VetogROUT EG340 from tools and equipment with Vetonit Solvent XX400 immediately after use. Remove cured material mechanically.

Packaging & Coverage

Product	Pack Size	Yield
VetogROUT EG340	20 kg kit	10.8 Liters approx.

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, method of application, and wastage.

Shelf Life & Storage

The original sealed container of VetogROUT EG340 has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place.

Health & Safety

VetogROUT EG340 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.

VetogROUT EG340 is non-flammable. Vetonit Solvent XX400 is flammable. Do not expose to direct flame & keep away from heat sources.