



VetogROUT CG518

Chloride free nonmetallic non-shrink grout

Uses

- Precast panels wall and base segment grouting.
- Repair of broken structural concrete elements where large segments are of concern.
- Casting structural members and elements where conventional grouts can not perform.
- Base plate grouting where sections are more than 70mm.

Product Description

VetogROUT CG518 is a single component cementitious structural and non-shrink grout that is ready to use and only requires the addition of water on site. Once mixed, the product is applied by pouring it into prepared form-work to repair demanding structural repair while being compatible with host concrete. VetogROUT CG518 is composed of a blend of hydraulic cement, carefully selected and graded aggregates, fibers, and special additives to give it its unique properties.

Advantages

- Factory-controlled pre-blend ensures consistently high quality.
- Designed for large thickness grouting & repair.
- Requires only the addition of water on-site at the time of usage.
- Compatible with normal concrete.
- High freeze-thaw resistance.
- Low porosity and Non-shrink characteristics.
- High bond strength.
- Cost-effective.

Standards Compliance

- ASTM C1107/1107M-14 (previously CRD621) as Type B.
- ASTM C938-10

Technical Data

VetogROUT CG518	Typical Values
Drying Shrinkage ASTM C157	<300 Microstrain @ 7 d <500 Microstrain @ 28 d
Water Penetration DIN 1048	<10 mm
Fresh Mixed Density	Approximately 2.2 kg/ltr
Maximum Aggregate Size	2.4 mm
Coefficient of Thermal Expansion	11x10 ⁻⁶ m/m per °C
Compressive Strength BS 4551	> 65 N/mm ² @ 28 days
Flexural strength BS 4551	> 7.5 N/mm ² @ 28 days.
Tensile Strength BS 4551	> 3 N/mm ² @ 28 days
Application Thickness	50 - 500 mm
VOC Content ASTM D2369	<10 gm / Liter (LEED Compliant)
Water Demand	5.5 - 6.5 liter /50 kg bag

Usage Instructions

Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitance, dirt curing compound, etc.

Wet the substrate to achieve a saturated and surface

dry condition before the application of VetogROUT CG518.

Erect the hopper system and form-work, make sure that the shuttering is watertight using a polyurethane sealant such as Vetoflex PU780 or a rubber gasket seal. This step is important to ensure no cement paste and water leak from the shuttering. Contact your Saveto's local representative for more technical information, Saveto's grouting detailed method statement, and CAD details.

The base plate must be clean and free from oil, grease, or scale. Air pressure relief holes should be provided to allow venting of any isolated high spots.

If leveling shims are used and removed after the grout has hardened, they should be treated with a thin layer of grease.

Unrestrained Surface Area

Generally, the gap width between the perimeter form-work and the plate edge should not exceed 150 mm on the pouring side and 50 mm on the opposite side. It is advisable where practical to have no gap at the flank sides.

Mixing

For best results, use a mechanically powered grout mixer. When using quantities up to 50kg, a slow-speed drill fitted with a high shear mixer is suitable. Larger quantities will require a high shear vane mixer. Do not use a colloidal impeller mixer.

To enable a continuous grouting operation, it essential to provide a sufficient mixing capacity and labor. It may require the use of a grout holding tank with the provision to agitate the grout gently.

Water to be added is 11-13% by weight of the grout and should be accurately measured into the mixer. Slowly add the total content of the VetogROUT CG518 bag, and mix continuously for 5 minutes. This will ensure that the grout has a smooth, even consistency.

Placing

At 25°C, place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Place VetogROUT CG518 in thicknesses up to 100 mm in a single pour when used as an under-plate grout. For thicker sections, it is necessary to fill out VetogROUT CG518 with 30-50% of the well-graded silt-free aggregate, depending on the thickness, to minimize heat build-up, typically 10mm aggregate is suitable.

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Any bolt pockets must be grouted before grouting between the substrate and the base plate. Continuous grout flow is essential. Prepare a sufficient grout before starting. Regulate the time taken to pour a batch to the time to prepare the next one. VetogROUT CG518 repair area should not exceed 2.5 m² in a single application.

Curing

Upon completion of the grouting process, exposed areas should be covered well with polyethylene sheets to prevent evaporation of the water in the mix for the first 24 hours; later, the grouted area should be cured using clean potable water twice a day for 3 days. Or you can use the Vetocure XT425 water-based curing compound after placing the grout.

Cleaning

Remove VetogROUT CG518 from tools and equipment with clean water immediately after use. Remove cured material mechanically.

Packaging & Coverage

Product	Pack Size	Consumption
VetogROUT CG518	25 Kg Bag	12 Liters Yield
	50 Kg Bag	24 Liters Yield
Vetobond AB432	4 Liter Can	6-8 m ² / Liter
Vetoprime EP310	1 Liter Can	7.5 m ² / Liter
Vetobond EB430	1 Liter Kit	8 m ² / Liter

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 bag of VetogROUT CG518 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded temperature-controlled place with temperatures between 5°C - 35°C.

Health & Safety

VetogROUT CG518 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 CG518 is non-flammable.