

VARAGROUT - RED HEAVY DUTY EPOXY GROUT

DESCRIPTION

VARAGROUT - RED is a 100% solids three component epoxy grout. It provides high strength and creep resistance combined with the highest effective bearing area which makes it ideal for final positioning of critically aligned machinery within close tolerances.

USES

VARAGROUT - RED is used for all grouting applications, especially those requiring chemical resistance and heavy duty resistance to vibrational and other dynamic and mobile loads and to support sole plates in all types of foundation designs. Applications include crane and transporter rails, compressors, high speed turbines and centrifuges, rock crushers and pulping machines and other heavy duty equipment. It can also be used for anchoring steel bar with concrete.

ADVANTAGES

- ◆ Dynamic load resistance due to high flexural, tensile and compressive strengths and excellent adhesion to concrete and metal surfaces.
- ◆ Rapid installation and strength gain leading to early commissioning.
- ◆ Excellent chemical resistance to most acids, alkalies, oils, petrol and water.
- ◆ **VARAGROUT - RED** contains no non reactive diluents which could interfere with the curing mechanism or which could cause material loss during or after cure. Machinery may be positioned at its final elevation before pouring because the shrinkage is negligible. Critical alignments are maintained during machinery operation due to its high dimensional stability and resistance to creep and vibration.
- ◆ High impact resistance.
- ◆ Unaffected by weathering and freeze / thaw cycling.

- ◆ Locally manufactured, factory quality controlled, ensures constant quality.

TYPICAL PROPERTIES

- ◆ **Linear Shrinkage (ASTM C - 531):** 0.02 mm.
- ◆ **Effective Bearing Area:** 95% minimum.
- ◆ **Compressive strength: ASTM C-579:** 121 N/mm² - 7 days.
- ◆ **Tensile strength: ASTM D-638:** 13 N/mm²
- ◆ **Coefficient of Linear Thermal Expansion: ASTM D-696:** $22.5 \times 10^{-6} / ^\circ \text{C}$.
- ◆ **Bond to concrete:** Concrete failure.
- ◆ **Impact Strength:** Better than concrete.

LIMITATIONS

Do not apply at temperatures less than 5° C. Ensure that all surfaces are substantially dry. Ensure that the filler is added to the mixed base and hardener immediately after mixing to reduce the heat evolved.

APPLICATIONS

Clean the concrete, removing any loose material, laitance, grease and oil. Fix standard formwork ensuring that the area is grout tight. The metal surfaces should be grease and oil free and any rust or paint should be removed by grit blasting or wire brushing.

Precondition Base, Hardener and filler to 20° C to 25° C for 24 hours before mixing. Pour the hardener into the base can, mix thoroughly to get a uniform mix. Pour the mix into a suitable clean tub and add the filler gradually whilst mixing with a low speed drill and paddle. Alternatively use a mechanical mixer for 2 to 5 minutes until a consistent grout is obtained. Pour the grout quickly into position. When pouring the grout ensure that sufficient grout is available to maintain a grout head until the pour is complete.

Grout is poured from one side to avoid air entrapment. Rod and plungers may be used to facilitate placement.

VARAGROUT – RED is quick curing, relative to cement grouts, but the cure is thermally gentle. This allows thick pours to be made without causing the stress cracks often associated with a hot - curing epoxy grout.

VARAGROUT - RED may be used in any thickness greater than 30 mm (1.25") however individual pours should not exceed 20 cm (8") in thickness and 1.5m in length. For design considerations and application details please contact **AKARSH** factory.

POST PLACEMENT PROCEDURE

Do not wet cure **VARAGROUT - RED**. It is a chemical curing material. All surfaces, equipment, and tools may be cleaned with lacquer thinner, ketones, or similar solvent before grout hardens.

In-service operation may begin immediately after minimum required grout strengths have been achieved. Final finishing of exposed surfaces is aided by applying a very light mist of solvent just before material becomes unworkable.

PACKAGING AND YIELD

VARAGROUT – RED : 36.2 kg Pack, Yield 15.74 litres.

PRECAUTIONS

- ◆ **Cleaning** : Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations.
- ◆ **Storage** : Store in dry conditions upto 20° C. Shelf Life 1 year.
- ◆ **Fire resistance** : The product is not flammable but will burn in a fire.

PERFORMANCES STANDARDS

The applicable specifications for performance and testing are:

ASTM C - 579
ASTM C - 531
ASTM D - 638
ASTM D - 696

HEALTH & SAFETY

VARAGROUT - RED should not come in contact with skin and eyes or swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier creams should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream, followed by washing with soap and water. Contamination of skin by non resin based products should be removed immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately.