

VARAGROUT - ORANGE

NON – SHRINK FREE FLOW EPOXY CHOCK

DESCRIPTION

VARAGROUT – ORANGE is a 100% solids, two component free, flow, non-shrink epoxy chock formulated to provide easy placement. It provides high strength and creep resistance and fatigue resistance at high operating temperatures combined with the highest effective bearing area. It is designed to withstand severe marine and industrial environments involving a high degree of both physical and thermal shock. The compound is non shrinking and has very high impact and compressive strength.

USES

VARAGROUT – ORANGE is used for all grouting applications, especially those requiring chemical resistance thermal surface and heavy duty resistance to vibrational and other dynamic or mobile loads. Applications include gas and diesel engines, reduction gears, generators, compressors, pumps, bearing blocks, crane rails and numerous other applications.

ADVANTAGES

- ◆ Minimizes heat build up on foundations.
- ◆ Assures precise contact with bed plates (**EBA**).
- ◆ Excellent resistance to creep and fatigue at high operating temperatures.
- ◆ High Compressive Strength and High Impact Strength.
- ◆ Easy flow, fills all voids and irregularities.

TYPICAL PROPERTIES

- ◆ **Linear Shrinkage ASTM C-531:** 0.000264 mm/mm.
- ◆ **Effective Bearing Area:** 95% minimum.
- ◆ **Creep, FSP creep:** 4.4×10^{-3} inches/inches at 180°F and 400 psi at 1 year.
- ◆ **Compressive strength: ASTM D-695,** 120 N/mm². 7 days.

- ◆ **Tensile strength: ASTM D-638:** 35 N/mm²
- ◆ **Coefficient of Linear Thermal Expansion: ASTM D-696:** (24 to 70°C): $31 \times 10^{-6}/^{\circ}\text{C}$.
- ◆ **Bond to concrete:** Concrete failure.
- ◆ **Barcol Hardness ASTM D - 2583:** 40 -44
- ◆ **Pot Life:** 40 minutes @ 25°C.

FLOW

Flow is dependent upon gap width, grout head (100 - 300mm is normal) and temperature. At 20°C a 200mm head and average gap widths, the flow is in excess of 1m.

LIMITATIONS

Do not apply in 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

VARAGROUT - ORANGE is designed to be a chocking or grouting material. A chock depth of 50mm (2") is standard; however, thinner or thicker pours can be made satisfactorily. The 50mm (2") chock elevates equipment above the underlying foundation which allows a free flow of air thereby reducing possible foundation humping problems. Contact **AKARSH** Factory for information regarding pours less than 25mm in thickness or greater than 60mm in thickness. The excellent flowability of **VARAGROUT – ORANGE** allows it to fill voids in the chock area and to conform to all surface irregularities. This eliminates the need to machine equipment bedplates which is both costly and time consuming. The excellent surface contact and high coefficient of friction between **VARAGROUT - ORANGE** and the machinery bed plate assure a permanent precise alignment.

Precondition Base and hardener to 25° ± 2° C for 24 hrs before mixing. The hardener should be added to the resin and power mixed till the mix becomes

homogeneous and free of any lumps. Generally for 3 - 4 min. Use a slow speed drill (500 rpm) and fitted with a suitable paddle for mixing.

occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately.

POST PLACEMENT PROCEDURE

Do not wet cure **VARAGROUT – ORANGE** 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 require grout strengths have been achieved. Final finishing of exposed surfaces is aided by applying a very light mist solvent just before material becomes unworkable.

PACKAGING AND YIELD

VARAGROUT - ORANGE: 5 kg Pack, Yield 3 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 D - 696
ASTM D - 695
ASTM D - 638
ASTM C - 531
ASTM D – 2583

HEALTH & SAFETY

VARAGROUT – ORANGE should not come in contact with skin and eyes or be 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