



VARAGROUT – BLACK

NON-SHRINK FREE FLOW EPOXY CHOCK

DESCRIPTION

VARAGROUT - BLACK is a 100% solid, three 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.

USES

VARAGROUT - BLACK 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 generator pumps, high speed turbines, centrifuges, rock crushers and pulping machines and other heavy duty equipment.

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.

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-695:111** N/mm² 7 days.
- ◆ **Tensile strength : ASTM D-638:** 25.6 N/mm²
- ◆ **Coefficient of Linear Thermal Expansion: ASTM D-696** : (24 to 70° C) : $32.5 \times 10^{-6}/^{\circ}\text{C}$
- ◆ **Bond to concrete** : Concrete failure.

- ◆ **Barcol Hardness ASTM D – 2583** : 60.5
- ◆ **Pot Life** : 40 minutes @ 23° C.

FLOW

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

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 - BLACK is designed to be a thick pour liquid chocking 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 - BLACK** 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 - BLACK** and the machinery bed plate assure a permanent precise alignment.

Precondition resin and hardener to 25±2° C for 24 hrs before mixing. The hardener should be added to the resin and power mixed for 1 to 2 min. Then add filler to this mix and mix again to 3-4 min. till the mix becomes homogeneous and free of any lumps. Use a slow speed drill (500 rpm) and fitted with a suitable paddle for mixing.

POST PLACEMENT PROCEDURE

Do not wet cure **VARAGROUT -BLACK**. 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 solvent just before material becomes unworkable.

PACKAGING AND YIELD

VARAGROUT - BLACK: 21.6 kg Pack, Yield 9.8 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 - BLACK 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 occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately.