



KEM GROUT EP 1

Free Flow Epoxy Grout

Description

KEM Grout EP1 is solvent free epoxy resin with polyamine hardener. KEM Grout EP1 and KEM Grout EP2 grades additionally contain inert granular powdered fillers. They are designed for a gap from 0.3 mm to 70 mm.

KEM Grout EP1 is for gaps from 8.0 mm to 40 mm.

Uses

- KEM Grout EP1 is used for all grouting applications, especially those requiring chemical resistance and heavy duty resistance to vibrational and other dynamic or mobile loads.
- Applications include crane and transporter rails, compressors, high speed turbines and centrifuges, rock crushers and pulping machines and other heavy duty equipment.
- They can also be used for anchoring steel bar with concrete and the annular gap should be within the limits indicated.
- KEM Grout ELV is recommended for crack injection and to fill up hollowness beneath improperly grouted machine base plates.

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.
- Low creep characteristics under continuous loads.

Typical Properties

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

| Test | Observations / Days | | |
|---|---------------------|--------|--------|
| | 1 Day | 3 Days | 7 days |
| Compressive Strength BS 6319, N/mm ² | 60 | 70 | 80 |
| Tensile Strength ASTM C 307 | | | 15 |
| Flexural Strength, BS 6319 | | | 35 |
| Compression Modulus, ASTM C 469 | | | 15000 |
| Density | 1.95 | | |
| Pot Life, Minutes | @ 10°C | @ 20°C | @ 30°C |
| | 80 | 40 | 20 |

Standards

ASTM-C 881-87 - Type I, IV & VI, Grade 2, Class B & C Passes ASTM-C 883 & ASTM-C 884.

Direction for use

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.

Pour the hardener into the base can and mix thoroughly for 3 minutes.

Pour the mix into 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.

Packaging

KEM Grout EP1 10.8kg Pack , yields 5.535 litre

Storage and Shelf life

Store in dry conditions upto 20°C. Shelf life 12 months.



Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

Cleaning: Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations.

Fire resistance: The product is not flammable but will burn in a fire.

KEM Grout EP1 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. Do not induce vomiting.

Note

When working in open areas and in large grout pours, additional aggregates of size 3/8" which is clean dry and of good quality may be added. The proportions are dependant on gap dimensions and mix consistency required. Usually up to 10kgs of this aggregate may be added per pack of KEM

Grout EP 2. The strengths obtained are generally 5-10% higher.

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. The ELV grade should be poured soon after mixing to reduce the increase in temperature due to the exotherm.

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