Quality Needs Quality

Kemgrout EP 150

Non-Shrink, High Strength Epoxy Grout

Description	**Kemgrout EP 150** is a solvent-free, 3 components epoxy resin-based product designed for non-shrink, foundation epoxy grout for large gaps up to 150 mm. **Kemgrout EP 150** reduces possible shrinkage effects yet develops high compressive strength**.**
Where to use	• For support and precision grouting for heavy equipment's where the mechanical properties and chemical resistance of the hardened grout must be of the highest order • Applications include heavy-duty support beneath crane and transporter rails, high-speed turbines and centrifuges, drop forges, reciprocating machinery, and other operating or test equipment subjected to heavy dynamic or mobile loads
Advantages	• High flexural strength and adhesion to substrate ensure excellent performance under dynamic operating conditions • Simple mixing with adjustable flow-ability features followed by high early strength • Withstands attack of a wide range of chemicals, acids, and alkalis and waterproof • Excellent mechanical properties ensuring durability and long-term service • Materials designed for low creep characteristics under sustained loading • Pre-weighed ready-to-use packing to facilitate site mixing • Vibration damping effect protecting the concrete foundation from cracking

Properties

Mechanical Properties: @ 20 °C, in 7 days	
Compressive strength	75.0 – 80.0 N/mm^2
Ultimate flexural strength	30 – 35 N/mm^2
Ultimate tensile strength	15 – 18 N/mm^2
Ultimate Young's modules (static)	15000 N/mm^2
Shrinkage	NIL
Linear coefficient of expansion	34x10^{-6}/ °C
Specific gravity	2
Pot life @ 23 °C	40 minutes
Bond strength to concrete,	4 N/mm^2
Bond strength to steel	20 N/mm^2
Thickness per application	Minimum 60 mm @ 25 °C – 30 °C Maximum 150 mm @ 20 °C – 25 °C
Water absorption	Nil

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Surface Preparation	• **Concrete surface:** Must be free from oil, grease, or any loosely adhering material, if the concrete surface is defective or has latency, it must be cut to a sound base • Bolt holes or fixing pockets must be blown clean of any dirt debris. • All rust traces must be removed either by mechanical means (e.g. abrasives) or by a suitable rust remover **e.g Kemkleen** • The undersides and edges of the steel plate should then be cleaned from oil and dirt's then protected with **Kemprim M** to prevent rust formation and ensure bonding with the **Kemgrout EP 150**
Mixing	Mixing of **Kemgrout EP 150** should be carried out as follows: • The entire contents of part B (hardener) should be poured into part A (base) and mixed until homogeneous Color is obtained • Place the mixed resin and hardener into a suitable mechanical mixer making sure that the entire volume is poured in • Add the aggregate and mix for 2 – 3 minutes or until a uniform color is achieved • Allow mixed grout to stand for 2 minutes prior to placing to allow entrained air from mixing to be released • The mix should be poured within the pot life
Application	• Sufficient amount of grout must be available prior to the start and the time taken to pour a batch must be regulated to the time taken to prepare the next one • Pouring should be from one side of the void to eliminate the entrapping of air • Where further mixes are required to fill the void, maintain a continuous pouring
Theoretical coverage	2 kg/ m^2/mm thick
Packaging	10 & 40 Kg (A+B+C)
Shelf life & Storage	**Kemgrout EP 150** has a shelf life of 12 months in recommended conditions
Cleaning	Tools can be cleaned with a suitable solvent (e.g. xylene) to remove the non-cured mortar
Exothermic	The temperature rise developed in the mixed grout is a function of the volume-to-surface area ratio, the ambient temperature, and the mass and thermal conductivity of surrounding material
Health and Safety	• Some people are sensitive to epoxy resin so gloves and a barrier cream should be used when handling these products • If contact with the resin occurs, it must be removed before it hardens with soap and water • Do not use solvents, the use of goggles is recommended but if accidental eye contamination occurs, wash thoroughly with plenty of running water and seek medical treatment immediately
Additional Information	**PROKEM** provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure **PROKEM** designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction **PROKEM** reserves the right to change the properties of its products All orders are accepted subject to our current term of sale & delivery Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request **PROKEM** extends technical services to include after-sales support to assist users in the proper handling of our products