

Kemgrout EP

Non-Shrink, Free Flow Epoxy Grout

Description	Kemgrout EP is a solvent-free, 3 components epoxy resin-based product designed for non-shrink, free-flow grouting of gap width from 10mm. and over. Kemgrout EP reduces possible shrinkage effects yet develops high compressive strength.		
Where to use	<ul style="list-style-type: none"> • For free-flow grouting 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	<ul style="list-style-type: none"> • High flexural strength and adhesion to substrate ensure excellent performance under dynamic operating conditions • Simple mixing and free-flowing 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			
Flow characteristics at 100 mm head and 20 °C			
Gap width, mm	10	40	70
Maximum flow distance, mm	800	1500	1900
Mechanical Properties: @ 20 °C, in 7 days			
Compressive strength	75 – 80 N/mm ²	National Research Center	
Ultimate flexural strength	30 – 35 N/mm ²		
Ultimate tensile strength	15 – 18 N/mm ²		
Ultimate Young's modules (static)	1500 N/mm ²		
Shrinkage	NIL		
Linear coefficient of expansion	34x10 ⁻⁶ / °C		
Specific gravity	2		
Pot life @ 23 °C	1 hour		
Bond strength to concrete,	9 N/mm ²		
Bond strength to steel	20 N/mm ²		
Max., thickness per application	5 cm @ 20 °C		
Water absorption	Nil		

Surface Preparation	<ul style="list-style-type: none"> • 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
Mixing	<ul style="list-style-type: none"> • Mixing of Kemgrout EP 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	<ul style="list-style-type: none"> • 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 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	<ul style="list-style-type: none"> • 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	<p>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</p> <p>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</p> <p>All orders are accepted subject to our current term of sale & delivery</p> <p>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</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products</p>