

Kemgrout MC/HS

Flowable, Micro Concrete, Non-Shrink & High Strength

Description	<p>Kemgrout MC/HS is a free-flowing, one-component, cement-based micro-concrete modified with aggregate (up to 10 mm), fillers, micro silica, and other selected additives.</p> <p>It is suitable for use in a hot climate. Kemgrout MC/HS can be pumped, poured, or trowelled for large areas of concrete repair and heavy-duty applications beneath base plates, plinths, and stanchion bases.</p> <p>Standards :It complies with ASTM C580,191, C230 and BS 1881.</p>
Where to use	<ul style="list-style-type: none"> • Casting structural elements with too large volumes (>75 mm). • Grouting for too small and inaccessible areas. • Steel structures. • Turbines, generators & heavy machinery. • Foundations & bearing plates. • Crane rails and machine base plates.
Advantages	<ul style="list-style-type: none"> • Non-corrosive, non-chloride, and non-metallic. • Non-shrink. • High ultimate strengths and low permeability of cured repair. • Highly fluid to allow for placement without vibration. • Low permeable and excellent adhesion. • Easy to mix and apply. • Economical. • Can be pumped at a flowable consistency. • Self-compacted. • Good flow characteristics.
Properties	
Form	Grey powder
Wet Density	2300 Kg/m ³
Coefficient thermal of expansion	11x10 ⁻⁶ / °C
Mechanical Properties (after 28 days @ 25 °C)	
Flexural Strength	8 – 10 N/mm ²
Bond Strength	2.5 – 3 N/mm ²
Modulus of elasticity	315 N/mm ²
Linear shrinkage @ 7 Days	0.3%
Compressive strength @ 23 °C	
1 Day	30 – 35 N/mm ²
7 Days	45 – 55 N/mm ²
28 Days	60 – 65 N/mm ²

Surface Preparation	<p>Concrete substrates should be sound, clean, and free from oil, grease, laitance, and all loose matter.</p> <p>Saturating absorbent substrates with water and any remaining water should be removed.</p> <p>Metal substrates should be free from rust, scale, and other impurities.</p> <p>Expansion Joints: Shall be installed in accordance with local building codes.</p> <p>Never bridge an expansion, contraction, or construction joint.</p>
Mixing	<ul style="list-style-type: none"> • Empty the dry mix into a suitable mixer containing the specified amount of clean, potable water. • Mix with a low-speed drill (300-500 rpm) until a smooth, homogeneous consistency is obtained (mixing time 2 - 3 minutes) • Do not mix manually. • Mixing ratio: 12 -14 % of clean potable water / 25 kg bag
Application	<ul style="list-style-type: none"> • Wet the substrate with water prior to application. • Allow the grout to stand for 2 – 3 minutes before use to allow entrapped air to escape. • Place the grout within 15 – 20 minutes after mixing. <p>Maintain sufficient hydrostatic head of at least 15 cm. to keep the product flowing.</p>
Theoretical coverage	2300 Kg/m ³ .
Packaging	25 Kg Bags
Shelf life & Storage	12 months if stored in its original & unopened packs in proper conditions.
Curing	Exposed surfaces should be treated with a curing agent Kemcure or any other approved method such as polyethylene sheets or wet hessian.
Cleaning	Kemgrout MC/HS should be removed from tools and equipment immediately after use with clean water .
Health and Safety	<ul style="list-style-type: none"> • Kemgrout MC/HS is non-toxic if comes in contact with skin. • Use gloves to avoid contact with skins. • If skin comes in contact, wash immediately with soap and water. • Eye contamination must be immediately washed with water • Do not breath dust, Use a practical mask.
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.</p> <p>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>