

Kemseal HF

Semi-Flexible Polymer Cementitious waterproofing for Concrete and Masonry

Description	<p>Kemseal HF is two-components cementitious flexible polymer modified waterproofing for concrete and masonry</p> <p>Kemseal HF has a unique blend of selected cement, filler and additives applied in powder form (Part A) together with semi-flexible polymer in liquid form (Part B) The polymer liquid is specially designed to provide semi-flexibility when mixed and applied on concrete or masonry by means the coating has a high elongation and is compatible with the concrete thermal expansion, material can be manufactured based on sulfate-resistant cement</p> <p>The material complies with ASTM C-579, C-580, C-882, C-1305, D-412, EN-12390-8</p> <p>Kemseal HF can be reinforced with Fibermesh to enhance tensile properties & crack bridging ability</p>	
Where to use	<p>Kemseal HF is suitable for external and internal waterproofing, and crack sealing, it can be used for the following structures:</p> <ul style="list-style-type: none"> • Reservoirs, roof foundation, and sealing the bar holes • Resurfacing of concrete and masonry surface • Waterproofing for below-grade application or damp-proofing coating • Terraces and balconies • Sea walls • Swimming pools 	
Advantages	<ul style="list-style-type: none"> • Pre-weighed, nothing to add • Excellent bond to non-porous and porous concrete surfaces • Semi flexible - thermal expansion similar to concrete • Reduce labor costs • Resistant to aggressive media (Carbon dioxide and Chloride ion diffusion.) 	
Properties		
Density	1.85 Kg / Liter	
Water permeability	3 Bar – No Leakage	EN 12390-8
Color	White, Grey	
Pot life	60 minutes 20 °C	
Bond strength	≥ 2.5 N/mm ²	ASTM C-882
Tensile strength	2.0 – 2.1 N/mm ²	ASTM D-412
Compressive strength	29 – 30 N/mm ²	ASTM C-579
Flexural strength	10.5 – 11.2 N/mm ²	ASTM C-580
Crack bridging	≥ 1 mm.	ASTM C-1305
% Elongation	> 25% 28 days	ASTM D-412
Surface Preparation	<ul style="list-style-type: none"> • Surface to be coated with Kemseal HF must be clean and sound, free of dust loose particles, grease, oil, curing compounds, and mold oil sand primers from previous membrane systems. • Bitumen or primers should be removed by shot blasting or mechanical means. • Spilled concrete should be repaired by cutting out to sound concrete and patching with Kemrepair range 	



Mixing	<ul style="list-style-type: none"> • Kemseal HF is supplied in premeasured units • Slowly add the Kemseal HF powder to the Kemseal HF liquid in a suitable mixing container and mix to a lump free smooth consistency • Do not add water or rework a stiffened mix by adding water • Leave to stand for 10 minutes and re-mix • Using a drill paddle specially designed to entrap as little air as possible
Application	<ul style="list-style-type: none"> • Dampen surface immediately ahead of application • Do not apply Kemseal HF as a thin paint coat, lay it on the wall and level it out • If the wall becomes dry or Kemseal SF starts to pull during the application, dampen the wall again • Do not thin out the material • Fibermesh is embedded in a base layer 0.5 mm thick and covered with the first coat of Kemseal HF at 1.75 Kg/m² whilst still wet • Leave the coating to dry for 5 days before filling it with water
Theoretical coverage	<ul style="list-style-type: none"> • Approximately 1.0 - 1.25 Kg/m²/ layer depending upon the porosity of the surface • For reinforced system use 1.75 - 2.0 Kg/m²/ layer • 2 coats are required
Packaging	20 Kg (powder & liquid) Sack & pail
Shelf life & Storage	Kemseal HF has a shelf life of 12 months if kept in original packs in a dry condition
Precaution	<ul style="list-style-type: none"> • Dampen surface immediately ahead of application • Care should be taken when curing in hot, sunny, or windy conditions • Do not apply when the temperature is 5 °C or due to falling below 5 °C within 24 hours
Health and Safety	<ul style="list-style-type: none"> • Use goggles, gloves, and a breathing mask when applying • Apply forced ventilation in confined spaces • Remove splashes from the skin with hand cleaner or soap and water • Eye splashes are to be washed with plenty of water
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 structures</p> <p>PROKEM designs tailor-made products should there be a 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 terms 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>