

Kemseal mortar / VC

High Performance Cement-Base Water Proofing Cementitious Lining

Description	KEMSEAL MORTAR VC is a special cement-base, premixed mortar one component, contains silica quartz filler, graded high purity sand and rheology adjusters. It's a chloride & iron – free , non-shrink homogeneous and impervious lining for both positive and negative
Where to use	<ul style="list-style-type: none"> • It can be used to waterproof horizontal, vertical and overhead substrates whether the application is interior or exterior KEM-SEAL MORTAR VC linings are resistant to all types of ground table water. It can be used for concrete, masonry and bricks. Typical waterproofing applications are: • Water-retaining structures. • Sewage treatment plants. • Foundation & basements. • Marine works. • Pointing & bedding for tiles & bricks. • Negative waterproofing linings .
Advantages	<ul style="list-style-type: none"> • Waterproofing (positive & negative). • Excellent adhesion. • Resistant to alkali's & acids. • Resistant to sea water, brackish water, industrial water & sanitary sewage. Resistant to carbonation providing. • excellent protection to steel reinforcement. • Non-toxic, suitable for food & potable water. • Resistant to abrasion & UV - light. • Bridges and seals hairline cracks. • Lifetime. • Dual sealing by the action of alumina gel formation and high compactness calcium silicate hydrate.
Properties	
Color	Grey
Fresh density	2.2 kg/l
Setting time	20 min @ 23 °C
Adhesion	10 Kg/cm ²
Compressive strength	5 MPa after 1day 13 MPa after 7 days 41 MPa after 28 days 70 MPa after 1 year Water to powder ratio = 0.15 by weight
Surface Preparation	<ul style="list-style-type: none"> • All surfaces must be sound, clean and free from dust, oil, grease and loose particles. • All concrete defects should be saturated with clean water; no running water is required and no bonding agent is required.
Mixing	<ul style="list-style-type: none"> • Each 25 Kg bag of the material needs 3.5 - 4 liters of potable water. • Add the powder gradually to water, mix with slow speed drill (300-500 rpm) to obtain homogeneous mix.
Application	<ul style="list-style-type: none"> • Apply first layer with a trowel and press firmly to insure compaction & adhesion to the substrate with a thickness of 7 mm. • Apply the 2nd layer immediately, if time is elapsed, wet the first layer. The second layer thickness is 5 mm. • Trowel finished and cure after hardness with water for 24 hours. • Avoid fast setting due to the hot weather, direct sun light, or using hot water .
Theoretical Coverage	24 Kg/m ² /12 mm thickness. To be applied over 2 layers

Packaging	25 kg bags.
Shelf life & Storage	6 months in its sealed bags stored in normal conditions.
Health and Safety	<ul style="list-style-type: none">• Use goggles gloves and a breathing mask when applying.• Apply forced ventilation in confined spaces.• Skin splashes to be removed with hand cleanser, soap and water.• Eye splashes to be washed with plenty of water.• If ingested seek medical advice.
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 a proper handling of our products.</p>