

# Kemseal mortar / VC

High Performance Cement-Base Water Proofing Cementitious Lining

<b>Description</b>	<b>KEMSEAL MORTAR VC</b> 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
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• 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:</li> <li>• Water-retaining structures.</li> <li>• Sewage treatment plants.</li> <li>• Foundation &amp; basements.</li> <li>• Marine works.</li> <li>• Pointing &amp; bedding for tiles &amp; bricks.</li> <li>• Negative waterproofing linings .</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Waterproofing (positive &amp; negative).</li> <li>• Excellent adhesion.</li> <li>• Resistant to alkali's &amp; acids.</li> <li>• Resistant to sea water, brackish water, industrial water &amp; sanitary sewage. Resistant to carbonation providing.</li> <li>• excellent protection to steel reinforcement.</li> <li>• Non-toxic, suitable for food &amp; potable water.</li> <li>• Resistant to abrasion &amp; UV - light.</li> <li>• Bridges and seals hairline cracks.</li> <li>• Lifetime.</li> <li>• Dual sealing by the action of alumina gel formation and high compactness calcium silicate hydrate.</li> </ul>
<b>Properties</b>	
Color	Grey
Fresh density	2.2 kg/l
Setting time	20 min @ 23 °C
Adhesion	10 Kg/cm <sup>2</sup>
<b>Compressive strength</b>	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
<b>Surface Preparation</b>	<ul style="list-style-type: none"> <li>• All surfaces must be sound, clean and free from dust, oil, grease and loose particles.</li> <li>• All concrete defects should be saturated with clean water; no running water is required and no bonding agent is required.</li> </ul>
<b>Mixing</b>	<ul style="list-style-type: none"> <li>• Each 25 Kg bag of the material needs 3.5 - 4 liters of potable water.</li> <li>• Add the powder gradually to water, mix with slow speed drill (300-500 rpm) to obtain homogeneous mix.</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>• Apply first layer with a trowel and press firmly to insure compaction &amp; adhesion to the substrate with a thickness of 7 mm.</li> <li>• Apply the 2<sup>nd</sup> layer immediately, if time is elapsed, wet the first layer. The second layer thickness is 5 mm.</li> <li>• Trowel finished and cure after hardness with water for 24 hours.</li> <li>• Avoid fast setting due to the hot weather, direct sun light, or using hot water .</li> </ul>
<b>Theoretical Coverage</b>	24 Kg/m <sup>2</sup> /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"><li>• Use goggles gloves and a breathing mask when applying.</li><li>• Apply forced ventilation in confined spaces.</li><li>• Skin splashes to be removed with hand cleanser, soap and water.</li><li>• Eye splashes to be washed with plenty of water.</li><li>• If ingested seek medical advice.</li></ul>
Additional Information	<p><b>PROKEM</b> 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><b>PROKEM</b> designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, <b>PROKEM</b> reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current term of sale &amp; 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><b>PROKEM</b> extends technical services to include after sales support to assist users in a proper handling of our products.</p>