

# Corrobond 100

Anti-Corrosive, Protective, Bonding & Repair Epoxy–Cement Mortar

<b>Description</b>	<p><b>Corrobond 100</b> is a 100% solids three-components system -blended of a unique combination of epoxy resin and selected cement / sand mixture, premixed and prepacked to produce a mortar suitable for vertical and horizontal repairs, bonding of old to new concrete and as anti-corrosion coating for rebar protection and concrete surface protection. <b>Corrobond 100</b> produces exceptional bond and compressive strengths, with improved chemical and stain resistance.</p>
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• The main field of application is sealing &amp; priming coats and as an adhesion promoter on problematic concrete substrates subjected to extreme wetness (green concrete). <b>Corrobond 100</b> used:</li> <li>• As a sealer coat for new or old concrete surfaces to prevent penetration of water and chemicals.</li> <li>• To help eliminate "Dusting" of the concrete.</li> <li>• As an interface adhesive bonding agent to insure adhesion of new concrete to old concrete.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• <b>Corrobond 100</b> provides the following advantages:</li> <li>• Excellent adhesion to concrete substrates.</li> <li>• Materials are prepacked in convenient and easy to handle size, requiring only mixing on site.</li> <li>• Applied on damp or dry surfaces.</li> <li>• High abrasion resistance.</li> <li>• Very high resistance to UV rays and sea water.</li> <li>• Corrosion inhibitive accelerates re-passivation of steel and provides a dense high alkaline protective structural.</li> <li>• Non-shrink mortar.</li> </ul>
<b>Properties</b>	
Physical Properties	
Color	Light Grey
Pot life @ 230 °C	90 minutes
Density @ 230 °C	2 ±0.1 g/cm <sup>3</sup>
Curing time @ 230 °C	2 Days
Mechanical Properties	
Tensile Strength	After 7 days - 5.5 N/mm <sup>2</sup> After 28 days - 8.9 N/mm <sup>2</sup>
Compressive Strength	After 7 days - 28 N/mm <sup>2</sup> After 28 days - 35 N/mm <sup>2</sup>
Weight loss	After 7 days - 2.6 % After 28 days - 3.8 %
<b>Surface Preparation</b>	<ul style="list-style-type: none"> <li>• All grease, oil, chemical contamination, laitance and loose concrete or rust must be remove</li> <li>• Substrate must be structurally sound.</li> <li>• It may be applied to green and moist concrete.1 Wash with water jet in case of heavy dirt's. Steel surfaces must be clean, free from oil, grease, rust and mill scale.</li> </ul> <p><b>Expansion Joints:</b> Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint.</p>

Mixing	<ul style="list-style-type: none"> <li>• Thorough blending of all components is essential.</li> <li>• Use a power drill with mixing paddle.1 First, mix the binder separately; then, mix the activator separately.</li> <li>• Next, add the mixed activator to the mixed binder and thoroughly mix for at least one minute, then add the filler and mix for at least further two another minutes at revolution speeds that will not entrap air bubbles into the freshly mix.</li> <li>• You have to use the final mixture within the pot life which is 90 minutes at 230 C.</li> <li>• Mixing ratio: Binder: Filler as (1:4) PBW when used for rebar /protective coating</li> </ul>
Application	<ul style="list-style-type: none"> <li>• The mortar should be applied to a preferably primed surface with a wood float pressing firmly into place to ensure positive adhesion.</li> <li>• The surface may be closed using a steel trowel.</li> <li>• When used as Anti corrosive coating for rebar protection or protective coating for concrete surface, apply 1-2 coats depending on requirements by brush or spray gun</li> </ul>
Cleaning	Tools and equipment to be cleaned with special solvent immediately after use.
Theoretical coverage	2 Kg/m <sup>2</sup> /1mm thickness
Packaging	Total weight 35 kg (3 components).
Shelf life & Storage	<b>Corrobond 100</b> has a shelf life of 12 months if kept in original, undamaged packaging in a dry warehouse.
Precaution	<ul style="list-style-type: none"> <li>• Keep away from all sources of ignition during storage, mixing, application and cure.</li> <li>• Do not apply to asphalt or weak concrete.</li> <li>• Do not install at temperature below 10<sup>0</sup> C or above 45<sup>0</sup> C.</li> </ul>
Health and Safety	Some people are sensitive to epoxy resins and skin contact should be avoided. Gloves and barrier cream should be used when handling these products. If contact with resin occurs, it must be removed.
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. 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>