

# Corrobond 101

Anti-Corrosive Cement-Base, Polymer Modified Rebar Coating and Bonding Agent.

Description	<b>Corrobond 101</b> is an anti-corrosive, cement-base polymer modified rebar coating & bonding agent between old & new concrete. Especially designed for repairing of vertical and horizontal surfaces of concrete and masonry.
Where to use	<ul style="list-style-type: none"> <li>• <b>Corrobond 101</b> is used for general repair purposes of damaged or spalled concrete and for the protection of steel reinforcement rods against corrosion.</li> <li>• <b>Corrobond 101</b> is used for the restoration of concrete structures permanently subjected to severe weathering conditions.</li> <li>• <b>Corrobond 101</b> is used as an anti-corrosive rebar coating and bonding mortar between old &amp; new concrete.</li> </ul>
Advantages	<ul style="list-style-type: none"> <li>• Easy to use.</li> <li>• Excellent weathering resistance.</li> <li>• Rust inhibiting properties since it does not contain calcium chloride.</li> <li>• Excellent adhesion to concrete and steel.</li> <li>• Breathable.</li> <li>• Economic since it can be applied without the need of expensive form work.</li> <li>• Water repellent.</li> <li>• Non-shrink mortar.</li> </ul>
Properties	
Physical Properties	
Coefficient of thermal expansion	$9 \times 10^{-6} / ^\circ\text{C}$
Setting time	180 min - Initial 250 min - Final
Density	$2 \pm 0.2 \text{ gm. /cm}^3$ fresh wet
Mechanical Properties: After 28 days cured at 20 °C and R.H. of 70 ±5%	
E-modules	24550 N/mm <sup>2</sup>
Adhesion strength to concrete	1.5 - 2 N/mm <sup>2</sup>
Adhesion concrete to plain bars	1 - 2 N/mm <sup>2</sup>
Surface Preparation	<ul style="list-style-type: none"> <li>• Remove all damaged and contaminated concrete to reach the sound core.</li> <li>• Remove additional concrete surrounding and along the reinforcement bars.</li> <li>• Formation of clean-cut edges to avoid feather edges thoroughly clean reinforcement bars to remove all rust, scale and surface contaminants. (Sand or abrasive blasting is advised.)</li> <li>• If steel is heavily corroded that significant loss of section has occurred, add new steel. (Please consult a qualified engineer).</li> <li>• Clean and dampen the concrete surface with water</li> </ul>
Mixing	<ul style="list-style-type: none"> <li>• Mix <b>Corrobond 101</b> for 3 minutes using a low speed mixer to a batter consistency.</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 °C or above 45 °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.</p> <p><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>