

# Bituseal E100 (Formerly Bituseal E)

## Cold Applied Flexible Bituminous Protective Coating

<b>Description</b>	Medium viscosity flexible bitumen base protective coating. It is a blend of selected bitumen rubber emulsion and special polymer, which dries to form a flexible, waterproof, damp-proof bitumen film resistant to mild soil acids and salty water. It is suitable for hot and tropical climates. It complies with <b>BS 8102, ASTM C -309 -93, D1227 type 3 class 1, D2939 for concrete curing.</b>
<b>Where to use</b>	<ul style="list-style-type: none"> <li>• <b>Bituseal E100</b> provides a continuous barrier against water ingress thus, it is considered a water &amp; vapor barrier damp-proof course for belowground concrete protection.</li> <li>• Below ground concrete protection.</li> <li>• Concrete slabs of bathrooms, roofs and balconies.</li> <li>• Concrete curing by water retention.</li> <li>• Steel &amp; concrete pipes.</li> <li>• Corrosion protection to metal surfaces.</li> <li>• As an adhesive for poly foams</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Easy to use as it is a single component.</li> <li>• Very economic.</li> <li>• Resistant to most naturally occurring chemicals.</li> <li>• Can be applied to damp concrete substrates.</li> <li>• Quick drying &amp; impermeable to water.</li> <li>• Excellent adhesion to most common building substrates.</li> <li>• High coverage rate.</li> <li>• Good mechanical properties.</li> <li>• Does not crack at low temperatures.</li> <li>• Non-sagging.</li> <li>• Unaffected by high temperature.</li> </ul>
<b>Properties</b>	
Specific Gravity at 23 °C	1.0 ±0.05
Solid Content %	30 ±5
Rubber Content %	10 ±2
Heat Resistance	-30 °C/ +100 °C
Tack free time	1 - 2 hrs.
Over-coating time	2 - 4 hrs.
Full cure time	4 Days
Water vapor transmission	3 g/m <sup>2</sup> /day
Tensile Strength	1.7 N/mm <sup>2</sup>
% Elongation	60 - 80 %
<b>Surface Preparation</b>	<ul style="list-style-type: none"> <li>• All surfaces must be clean, free from grease, oil.</li> <li>• Dry concrete should be wetted.</li> <li>• All surfaces must be firm and thoroughly clean.</li> <li>• Holes and joints must be filled with <b>KemRepair</b></li> <li>• Ambient air &amp; substrate temperature (+5 °C/ +55 °C).</li> </ul>
<b>Mixing</b>	<ul style="list-style-type: none"> <li>• Add 5 – 10 % of clean water and stir to a homogeneous consistency.</li> </ul>

Application	<ul style="list-style-type: none"> <li>• For hot, dusty &amp; porous concrete, apply a prim coat of <b>Bituseal E100</b> diluted with an equal amount of water and allow drying.</li> <li>• Apply <b>Bituseal E100</b> in 2 coats depending on degree of protection required.</li> <li>• Apply <b>Bituseal E100</b> by brush, squeegee or spray.</li> <li>• Where <b>Bituseal E100</b> is to be topped with a screed, the second coat should be brushed off when re-coating as dried.</li> <li>• <b>Bituseal E 100</b> can be reinforced with <b>Kemfelt EG</b> (75 g/m<sup>2</sup>) for joints and roofs</li> </ul>
Theoretical coverage	<ul style="list-style-type: none"> <li>• 0.25 – 0.3 Kg/m<sup>2</sup> /coat at 75 - 100-micron D.F.T</li> <li>• 0.75 - 1 Kg/m<sup>2</sup> /coat (reinforced) at 1000-micron D.F.T</li> <li>• 2 coats are recommended</li> </ul>
Packaging	15 Kg Pails 200 kg Drums
Shelf life & Storage	12 months, when unopened.
Health and Safety	<ul style="list-style-type: none"> <li>• This product is of low toxicity but normal precautions should be observed</li> <li>• Wear gloves, and if working overhead or spraying, wear goggles.</li> <li>• Wash off any skin splashes with soap and water.</li> <li>• Eye contamination should be treated by irrigating the eye with an eye bathing solution.</li> <li>• Ensure adequate ventilation in confined spaces and use breathing aids.</li> <li>• If ingested, drink milk or water and seek medical attention.</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 structures.</p> <p><b>PROKEM</b> 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><b>PROKEM</b> reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current terms 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 the proper handling of our products</p>