

# Kemfloor ESL/ Novolac

Heavy Duty, High Chemical Resistant Self-Leveling Epoxy Floor Topping

<b>Description</b>	<b>Kemfloor ESL/ Novolac</b> is a solvent-free 3-components binder based on epoxy Novolac resin and graded fillers to produce a self-smoothing floor topping. It can be applied at the thickness of 1-3 mm
<b>Where to use</b>	<p>An easy to clean, with an attractive appearance for concrete floors such as:</p> <ul style="list-style-type: none"> <li>• Self-smoothing epoxy floor for moderate and heavy industrial use.</li> <li>• For the production of self – smoothing epoxy floor on concrete and cement screed with excellent chemical resistance and attractive appearance.</li> <li>• Pharmaceutical plants.</li> <li>• Food industries.</li> <li>• Bottling plants.</li> <li>• Dairies.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Easy to apply pre-weighed packing.</li> <li>• Easy to clean.</li> <li>• Good adhesion to substrate.</li> <li>• Easy to lay.</li> <li>• Excellent abrasion resistance.</li> <li>• Superior chemical resistance.</li> <li>• No over coating, achieved in single operation.</li> <li>• Available in a wide range of colors to enhance the working environment.</li> </ul>
<b>Properties</b>	
Color	White, gray and others are available on request.
Solids by volume	100 %
Specific gravity	1.87 ±0.06
Flash point	140 °C
Chemical resistance	See Prokem chemical resistance tables.
Pot life @ 23 °C	45 min
Fully cured	7 Days
Initial curing	24 hrs.
Technical information @ 23 °C after 7days:	
Compressive strength	50 - 60 N/mm <sup>2</sup>
Flexural strength	30 N/mm <sup>2</sup>
Tensile strength	15 N/mm <sup>2</sup>

Surface Preparation	<ul style="list-style-type: none"> <li>• Concrete compressive strength &gt;25 N/mm<sup>2</sup> &amp; Bond strength &gt; 1.5 N/mm<sup>2</sup> (28 days)</li> <li>• Moisture content &lt;4%</li> <li>• All concrete surfaces must be clean, sound, level, dry, and free from dust laitance, and unsound concrete and from oil, grease, and mold.</li> <li>• Steel surfaces should be degreased and blasted to Sa 2 ½ or any other alternative methods to provide clean, sound surfaces.</li> </ul>
Mixing	<ul style="list-style-type: none"> <li>• Stir the contents of pack A to disperse any settlement, and mix thoroughly until homogeneous</li> <li>• Add the mix (A+B) to the filler C (agg. no.1002) and continue mixing for 2-3 min. until all components are thoroughly mixed.</li> </ul>
Application	<ul style="list-style-type: none"> <li>• Apply a full primer using <b>Sealer E43</b> with a consumption of 0.15 – 0.2 Kg/m<sup>2</sup> – make sure the whole area is primed and no visible pinholes – repeat when needed</li> <li>• Apply the Self -smoothing mixture of <b>Kemfloor ESL/Novolac</b> with a toothed trowel and remove any entrapped air with a spiked roller.</li> <li>• <b>Kemfloor ESL/Novolac</b> should not be exposed to water, chemicals, or mechanical stresses before it is fully cured.</li> <li>• Substrate moisture ≤ 4%</li> <li>• Min substrate temperature +10 °C</li> <li>• Max substrate temperature +30 °C</li> <li>• Max relative humidity 85 %</li> <li>• Can be walked on after 24 hours.</li> </ul>
Cleaning	Tools and application equipment should be cleaned with a special solvent immediately after use.
Theoretical Coverage	3.75 – 5.6 Kg /m <sup>2</sup> / 2 -3 mm
Packaging	Packages Part (A+B+C) (agg. no.2) 10 & 40 Kg
Shelf life & storage	12 months if stored in unopened containers in cool, dry condition.
Health and Safety	<ul style="list-style-type: none"> <li>• Use 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 are to be removed 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 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>