

# Kemfloor E43 SL

Heavy Duty, Self-Leveling Epoxy Floor Topping

<b>Description</b>	<b>Kemfloor ESL</b> is a solvent-free 3 components binder based on epoxy resin. Due to its extra low viscosity, highly filled (agg. no.2) a self-smoothing can be produced. It can be applied at the thickness of 2 – 3 mm without loss of self-leveling behavior	
<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>• Diaries</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>• Very good 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	Grey and other colors are available on request	
Solids by volume	100 %	<b>LEED NC-2016, IEQC 4.3, LEM</b>
Specific gravity	1.8 ±0.01	
Flash point	140 °C	
Chemical resistance	See Prokem chemical resistance tables	
Pot life @ 23 °C	45 min	
Fully cured	7 Days	
Abrasion resistance	63 mg loss	
Technical information (at 23 °C after 7days):		
Compressive strength	50 - 60 N/mm <sup>2</sup>	
Flexural strength	30 - 35 N/mm <sup>2</sup>	
Bond strength	1.5 N/mm <sup>2</sup> - Concrete Failure	
Tensile strength	15 N/mm <sup>2</sup>	
Standards	It complies with ASTM D2369,4060	

Surface Preparation	<b>New poured concrete</b> <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></li> <li>• Allow to fully cure 28 days prior to application</li> <li>• Remove any curing membrane by sanding or etching with a strong detergent</li> </ul>
	<b>Old concrete</b> <ul style="list-style-type: none"> <li>• Thoroughly clean surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding or grinding. Proceed as for new poured concrete</li> </ul>
	<b>Previously coated concrete</b> <ul style="list-style-type: none"> <li>• Remove any peeling or degraded paint by sanding or using a paint stripper.</li> <li>• For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss</li> <li>• Treat any areas worn down to the original concrete as bare concrete.</li> <li>• All damaged areas, cracks and surface irregularities must be repaired and smoothed first using <b>Kemrepair EP</b> and bonding layer using <b>Kembond EP</b></li> </ul>
Expansion joint	Shall be installed in accordance with local building codes. Never bridge an expansion, contraction or construction joint.
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. 2) 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 E43 SL</b> with a toothed trowel and remove any entrapped air with a spiked roller</li> <li>• <b>Kemfloor E43 SL</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	3.6 - 5.4 Kg /m <sup>2</sup> / 2 -3 mm
Packaging	5, 10 & 40 Kg packages 3 Components (A+B+C)
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

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