

# Kemfloor Antistatic

Seamless, Solvent Free -Epoxy Based, Anti-Static

<b>Description</b>	<b>Kemfloor Antistatic</b> is a solvent free Epoxy resin based antistatic floor system comprising a conductive primer underneath coat topped with a 0.5 mm smooth finish epoxy floor surface with controlled electric properties, It has excellent adhesion to most building materials when <b>Sealer E43</b> is used as a solvent – free, low viscosity priming coat
<b>Where to use</b>	<p>Kemfloor antistatic is suitable for use in areas where a durable, cleaned, chemically resistance floor surface is required with the attendant risk of static building, such as:</p> <ul style="list-style-type: none"> <li>• Electronics assembly.</li> <li>• Textile industries.</li> <li>• Explosive storage and manufacturing.</li> <li>• Banks.</li> <li>• Chemical industries.</li> <li>• Pharmaceutical industries.</li> <li>• Laboratories &amp; Hospitals.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Solvent-free.</li> <li>• Negligible shrinkage.</li> <li>• Excellent resistance to both chemical and</li> <li>• Mechanical attack.</li> <li>• Eliminates static discharge from personnel and vehicles</li> </ul>
<b>Properties</b>	
Density	1.5 ±0.1 Kg/ Lit
Pot life @ 23 °C	1 Hour
Surface Finish	Glossy or Matt
Full Cure @ 23 °C	7 Days
Compressive strength	30 - 40 N/mm <sup>2</sup>
Flexural strength	20 - 25 N/mm <sup>2</sup>
Modulus of elasticity	4000N/mm <sup>2</sup>
Leakage resistance	10 <sup>6</sup> - 10 <sup>9</sup> ohms
Chemical Resistance	Excellent Resistance
It complies with ANSI ESD, S.7.1 – ASTM F150	
<b>Surface Preparation</b>	<ul style="list-style-type: none"> <li>• Concrete should be sound, clean, free from contaminants, and dry.</li> <li>• Concrete shall allow provisions for movement joints as required.</li> <li>• All laitance must be removed and all cracks must be repaired and leveled with <b>Kemrepair EP</b></li> <li>• Floor substrates shall be prepared by mechanical means such as shot blasting to get a leveled surfaces and vacuum cleaned</li> <li>• Moisture content of concrete is less than 4%</li> </ul>

Priming	Apply <b>Sealer E43</b> or <b>Wetseal</b> for green concrete and leave 24 hrs. to dry. a <b>Conductive Primer</b> to ensure that no gaps occur when the primer is applied by roller or squeegee and it imparts to the cured primer a leakage resistance, use 0.15 to 0.25 Kg/m <sup>2</sup>
Earthing	<ul style="list-style-type: none"> <li>• It is also advisable to nail a thin wire screen or strips of copper 20 cm long in the sub-floor and connected to a water pipe or any natural conductor.</li> <li>• One point suffices for a single room, one earth per 100 m<sup>2</sup> is also sufficient</li> <li>• The applicator must provide the possibility of connecting the flooring to an earth potential (see sketches). The conductive primer resistance of the earth connection must be 10<sup>3</sup>-10<sup>5</sup> ohm</li> </ul>
Mixing & Application	<p><b>Mixing and application of Conductive layer:</b></p> <ul style="list-style-type: none"> <li>• Prior to mixing, stir part A mechanically, when all of part B has been added to part A, mix continuously for three minutes with a low speed mixer until a uniform and homogeneous mix has been achieved</li> <li>• Since the cement mortar or concrete may exhibit poor discharge capacity after epoxy topping has been applied. it is advisable to apply a conductive layer using a graphite powder and silica sand as a filler to ensure that no gaps occur and it impart to the primer a leakage resistance.</li> <li>• Apply the mixed <b>Conductive Primer</b> coat over the whole area of the floor by roller, taking care to ensure good wetting of the surface and place as well the earthing wire screen or strips</li> <li>• The fully cured film must show a mat and even black appearance. Conductivity of <b>Conductive Primer</b> layer has to be tested and checked, prior to the application of the top coat</li> </ul> <p><b>Desired value: resistance to earth (&gt; 1k Ω - &lt; 5 k Ω)</b></p> <p><b>Mixing and application of Top coating:</b></p> <ul style="list-style-type: none"> <li>• Prior to mixing, stir part A mechanically. when all of part B has been added to part A, mix continuously for three minutes with a low speed mixer until a uniform and homogeneous mix has been achieved</li> <li>• The topping compound <b>Kemfloor AS</b> should be applied after the conductive layer has cured, apply the top coat with a roller within the over coating time.</li> <li>• Excessive thickness must be avoided since it causes a reduced conductivity.</li> <li>• Leave to full cure for 7 days</li> </ul>
Cleaning	Tools can be cleaned, providing the adhering has not already set, using <b>Prosolve EP</b> .
Theoretical Coverage	<b>Sealer E43:</b> 0.15 - 0.2 Kg/m <sup>2</sup> or <b>Wetseal</b> (green concrete): 0.2 - 0.25 Kg/m <sup>2</sup> <b>Conductive Primer:</b> 0.15 - 0.25 Kg/m <sup>2</sup> <b>Kemfloor Antistatic:</b> 0.25 – 0.3 Kg/m <sup>2</sup> / Coat @ 170 – 200 micron 2 Coats are always recommended
Packaging	5 & 10 Kg for two components (A & B)
Shelf life & storage	12 months if stored in unopened containers in cool, dry condition.
Health and Safety	This product is of low toxicity but normal precautions should be observed. Wear gloves, and if working overhead or spraying, wear goggles. Wash off any skin splashes with soap and water. Irrigating the eye with an eye bathing solution should treat eye contamination. Ensure adequate ventilation in confined spaces and use breathing aids. If ingested, drink milk or water and seek medical attention.

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Additional Information

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