

# Kemfloor SL/AS

Epoxy Resin, Self-Leveling, Colored Antistatic Floor System

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| Description                                                                             | <b>Kemfloor SL/AS</b> is a single layer, seamless, solvent-free self-levelling epoxy flooring system with a smooth matt finish. It resists impact, abrasion and chemicals. Considered for antistatic floor system comprising a conductive primer underneath coat, and topped with a smooth finish epoxy floor surface with controlled electric properties, It has excellent adhesion to most building materials                                                                                          |                  |
| Where to use                                                                            | <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> </ul>                                                                                                                                                                                                                                                               |                  |
| Advantages                                                                              | <ul style="list-style-type: none"> <li>• Solvent-free</li> <li>• Impact &amp; wear resistant</li> <li>• Temperature resistance from +10 °C /+80 °C</li> <li>• Hygienic &amp; safe</li> <li>• Resistant to chemicals &amp; solvents</li> <li>• Electrostatic dissipative flooring system</li> </ul>                                                                                                                                                                                                       |                  |
| Properties                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| Density                                                                                 | 1.95 ±0.5 gm/cm <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                  |
| Color                                                                                   | RAL's 7040, 6033, 1027, & RAL 5012                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |
| Pot life @ 20 °C                                                                        | 30 minutes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |
| Over coating @ 20 °C                                                                    | 24 hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                  |
| Full Cure @ 20 °C                                                                       | 7 Days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| Compressive strength                                                                    | 55 – 60 N/mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ASTM C579-23     |
| Flexural strength                                                                       | ~ 38 N/mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| Tensile strength                                                                        | ~ 22 N/mm <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ASTM D638        |
| Abrasion resistance (CS17)                                                              | 60 mg Loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ASTM D4060-19    |
| Single flame test                                                                       | No ignition occurred/ No shrinkage                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ISO 11925-2:2020 |
| Pull-off strength                                                                       | 1.97 – Failure mode A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ASTM D7234       |
| Resistance to earth                                                                     | 10 <sup>6</sup> - 10 <sup>9</sup> ohm                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                  |
| VOC                                                                                     | 1.37 g/l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ASTM D3960       |
| It complies with ANSI ESD, S.7, 20 .20, DIN 51953 and BS 2050 (explosive handling area) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |
| Surface Preparation                                                                     | <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> |                  |

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| Priming                | <ul style="list-style-type: none"> <li>• Apply <b>Sealer E43</b> or <b>Wetseal</b> for green concrete and leave 24 hours to dry</li> <li>• Experience has shown that cement mortar or concrete sub-floor may exhibit poor discharge capacity after epoxy topping has been applied</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Earthing               | <ul style="list-style-type: none"> <li>• Apply strips of Copper Tape in the sub-floor over the initially primed surface, and connect the ends to any natural conductor attached to the building</li> <li>• Apply a coat of Conductive Primer using roller or squeegee and ensure that no gaps occur to cover the applied Copper Tape</li> <li>• The Conductive Primer resistance of the earth connection must be <math>10^4 - 10^6</math> ohm</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Mixing                 | <ul style="list-style-type: none"> <li>• Stir the contents of pack A to disperse any settlement, and mix thoroughly for 2 - 3 minutes or until a homogeneous mixture is achieved</li> <li>• Add the filler C (Aggregate #2) to the mixture and continue mixing for further 2 - 3 minutes until all components are thoroughly mixed</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Application            | <ul style="list-style-type: none"> <li>• The topping compound should be applied using a trowel, serrated edged trowel at a thickness of 1.5 - 2 mm</li> <li>• The freshly laid topping should be treated immediately with a spiked roller shortly for 10 minutes after application</li> <li>• This fresh rolling should be at right angles to the direction of laying</li> <li>• About further 10 minutes the floor should be rolled again at right angle to the first roll</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><br><b>Wetseal</b> (green concrete): 0.2 - 0.25 Kg/m <sup>2</sup><br><b>Conductive Primer:</b> 0.25 - 0.3 Kg /m <sup>2</sup><br><b>Kemfloor SL/AS:</b> 3 - 4 Kg/m <sup>2</sup> at a thickness of 1.5 - 2 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Packaging              | 40 Kg for three 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>• 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>• Irrigating the eye with an eye bathing solution should treat eye contamination</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, then and 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> |