

# Sikafloor<sup>®</sup> Resiplot - EG

## Epoxy/Glass-fibre Mechanical Floor Fixing System

Construction

<b>Product Description</b>	<b>Sikafloor Resiplot - EG</b> is a patented system for treating internal cementitious floors where conventional surface preparation is not viable. The system comprises of a mechanical anchored epoxy/glass-fibre mesh layer which provides a sound base for subsequent layers of synthetic resins or bonded tiled, timber finishes.
<b>Uses</b>	<ul style="list-style-type: none"><li>■ Food factories.</li><li>■ Workshops.</li><li>■ Production areas.</li><li>■ Walkways.</li><li>■ Corridors.</li><li>■ New or Old floors.</li><li>■ Supermarkets.</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Mechanical preparation can be avoided.</li><li>■ Reduced noise and vibration during installation.</li><li>■ Reduced dust compared to mechanical techniques.</li><li>■ Overlaying certain finishes is possible.</li><li>■ Overlaying sheet flooring or tiles.</li><li>■ Substrates with light contamination can be over coated.</li><li>■ Can accommodate most floor finishes.</li><li>■ Rapid installation.</li><li>■ Uses solvent free epoxy resins.</li><li>■ Waterproof.</li></ul>
<b>Technical Data</b>	<b>Approximate Values</b>
<b>System Colour</b>	Mesh – White/Transparent. Resin – Straw.
<b>Application temperatures</b>	+10°C min, +30°C max. (Substrate and ambient)
<b>Humidity Conditions</b>	RH 85 % max.
<b>Mesh Details</b>	Fiberglass
<b>Form</b>	
<b>Weight</b>	175 g/m <sup>2</sup>
<b>Grid Size</b>	4 x 4 mm
<b>Thickness</b>	0.8 mm
<b>Elongation at break</b>	3 %
<b>Anchor Details</b>	
<b>Form</b>	Plastic
<b>Shaft Length</b>	30 mm
<b>Shaft (Outer Diameter)</b>	12 mm
<b>Head</b>	30 mm



<b>Mechanical Properties (Full system)</b>	In concrete substrate > 2 N/mm <sup>2</sup>
<b>Failure</b>	1400 – 2600 N/mm <sup>2</sup>
<b>Elastic modulus</b>	25 N/mm <sup>2</sup>
<b>Breaking Load</b>	According to the chosen finish and Sikafloor-94
<b>Compressive Strength</b>	According to the chosen finish and Sikafloor-94
<b>Inter-Coat times</b>	
<b>Floor Coating System</b>	<ol style="list-style-type: none"> <li>1. Clean the floor.</li> <li>2. Roll out Sikafloor Resiplot - EG mesh.</li> <li>3. Drill and fix <b>Sikafloor Resiplot - EG</b> anchors.</li> <li>4. Fill anchor holes with <b>Sikafloor 94</b>.</li> <li>5 Cover mesh with <b>Sikafloor 94</b> (min 1.2 kg/m<sup>2</sup>)</li> <li>6 For finishes requiring a mechanical key, apply a Second coat of <b>Sikafloor 94</b> (0.4 kg/m<sup>2</sup>), fully blinded with sand</li> <li>7. Apply finish covering <ul style="list-style-type: none"> <li>Cementitious underlay (Sikafloor-Level)</li> <li>Resin coating</li> <li>Bonded tiles</li> <li>Bonded PVC or carpet</li> <li>Bonded timber</li> </ul> </li> </ol>
<b>Surface Preparation</b>	<p>The cementitious substrate should have a minimum thickness of 100mm and contain at least 300 kg/m<sup>3</sup> of cement.</p> <p>Tensile strength (25mm depth from top surface) must be &gt;1 N/mm<sup>2</sup> and compressive strength &gt;25 N/mm<sup>2</sup>.</p> <p>If the substrate is not of this strength consult Sika Egypt –Technical Office- for additional advice.</p> <p>Grease spots or stains are permissible however the substrate should not be impregnated with substances preventing the chemical sealing of the bolts (i.e. cutting oils or silicones).</p> <p>The substrate can have a coating of (for example) a synthetic resin, tiles (on a sound substrate) or plastic tiles or sheets glued into place.</p> <p>The Sikafloor Resiplot - EG system is a thin covering and will not correct unevenness within the floor, without additional layers.</p> <p>It is not a final finish in its own right. The system relies upon a grid of 12 mm diameter holes, 50 mm deep at 400 mm centres being drilled.</p> <p>It is the installer's responsibility to check that cables, pipes, reinforcement, conduits or buried services will not be affected.</p> <p>The surfaces must be clean, dry and free of particles, dust or other non-adherent items.</p> <p>A suitable cleaning method involving washing, degreasing or vacuum cleaning may be required.</p> <p>Pretreat any undulations if required using a Sikafloor 94 scraping mortar.</p>

<b>System application</b> <b>Mesh and Fixings</b>	<p>Unroll the Sika Resiplot mesh onto the floor and turn over to prevent mesh curling.</p> <p>Cut the material to suit the shape of the floor overlapping all joints by 100 mm.</p> <p>Drill through the mesh at 400 mm centres, a series of Ø 12 mm 50 mm depth holes.</p> <p>Remove dust from bolt holes using the drill vacuum dust extraction system or separate extraction unit.</p> <p>Place the Sika Resiplot anchors into the holes, through the mesh.</p> <p>Ensure the mesh remains flat and without creases.</p> <p>Provide additional anchors at all corners, angles and edges where the normal anchors are not within 50 mm of the edge/angle/corner.</p>
<b>Resin</b>	<p>Mix the Sikafloor 94 in accordance with the technical data sheet.</p> <p>Pour mixed Sikafloor 94 into the anchor holes and ensure that they are full before applying the remainder of the Sikafloor 94 evenly to the entire floor area by squeegee.</p> <p>Ensure the anchors and meshes are fully covered.</p> <p>Consumption will vary according to the profile of the substrate.</p> <p>Allow at least 1.2 kg/m<sup>2</sup> of Sikafloor 94.</p> <p>Porous or irregular surfaces will require more Sikafloor 94.</p> <p>Allow to cure.</p> <p>If the subsequent floor finish requires a broadcast/sand finish as a mechanical key, apply a second coat of Sikafloor 94 once the first coat is cured and fully blind with quartz sand 0.4-0.7 mm or larger.</p>
<b>Consumption</b>	<p>Sikafloor 94 to anchor the mesh and bolts = 1.2 Kg/m<sup>2</sup></p>
<b>Important information</b>	<p>Not intended for use over bituminous substrate or substrate where deformation can occur.</p> <p>Heavy contamination will require pre-treatment, if in doubt conduct trial.</p> <p>Don't apply Sikafloor Resiplot to substrates where significant vapour pressure may occur.</p> <p>Sikafloor Resiplot - EG can't make good substrates of very low quality and strengths.</p> <p>Only use in conjunction with Sikafloor 94 as the mesh/bolt binder.</p> <p>Can be overlaid with most floor coverings.</p> <p>Ask Sika Egypt –Technical Office – For more Advice.</p>
<b>Cleaning Equipment</b>	<p>Use Thinner C to remove Sikafloor 94.</p> <p>Hardened material may have to be mechanically removed</p>
<b>Packaging</b>	<p>Anchors: Plastic bag 10Pcs, 100Pcs.</p> <p>Mesh: Roll 50m<sup>2</sup></p>
<b>Storage and Shelf Life</b>	<p>Minimum 5 years (mesh and anchors) in sealed containers stored in dry warehouse conditions.</p>

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## Safety Instructions

<b>Ecology</b>	In a liquid state Sikafloor® -94 can contaminate water. Do not dispose of into water or soil but according to local regulations
<b>Transport</b>	Comp. (A): Non-hazardous. Comp. (B): 8/66 C.
<b>Safety precautions</b>	Before starting work, cover hands and unprotected skin with barrier cream. Wear protective clothing (gloves, glasses). In contact with eyes or mucous membranes rinse thoroughly with warm, clean water and seek medical help.
<b>Toxicity</b>	Please refer to labels or packing. For detailed information please ask for relevant safety data sheet.

## Legal notes

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. 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.



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