

## ZNR™ SL 450 Industrial Grade Self Levelling Screed

<b>Product Description</b>	A <b>polymer-modified, cement-based, high-performance self-levelling screed</b> with mineral additives, designed to create a dense and low-porosity surface for smoothing, repairing, and levelling applications.																			
<b>Product Number</b>	613																			
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>• Indoors and outdoors,</li> <li>• Filling voids in concrete floors and repairing existing concrete and screed surfaces,</li> <li>• Educational and administrative buildings,</li> <li>• Under ceramic, granite, and marble coverings,</li> <li>• Under wood, parquet, and laminate Flooring</li> <li>• Under carpet, PVC, linoleum, and rubber coverings,</li> <li>• Levelling uneven substrates,</li> <li>• Final levelling layer in areas with high pedestrian traffic,</li> <li>• Suitable for wheelchair traffic, light and heavy vehicular traffic, and underfloor heating systems.</li> </ul>																			
<b>Characteristics /Advantages</b>	<ul style="list-style-type: none"> <li>• Suitable for pump application,</li> <li>• Self-levelling and self-smoothing,</li> <li>• Suitable for sun-exposed interior and exterior areas,</li> <li>• Fast setting with rapid strength development,</li> <li>• High mechanical performance.</li> </ul>																			
<b>Reference Standard</b>	TS EN 13813 / CT-C50-F10																			
<b>Technical Data</b>	<table border="1"> <tr> <td>Powder Color</td> <td>Grey</td> </tr> <tr> <td>Working Temperature</td> <td>+5°C / +30°C</td> </tr> <tr> <td>Open time</td> <td>~35 min.</td> </tr> <tr> <td>Ready for Covering</td> <td>1-3 days depending on the thickness</td> </tr> <tr> <td>Application tools</td> <td>Suitable trowel, spike roller</td> </tr> <tr> <td>Compressive Strength</td> <td>28 day &gt; 50 N/mm<sup>2</sup></td> </tr> <tr> <td>Flexural Strength</td> <td>28 day &gt; 10 N/mm<sup>2</sup></td> </tr> <tr> <td>Consumption</td> <td>Varies depending on surface conditions. ~2.10 kg/m<sup>2</sup> material is required for every 1mm of thickness</td> </tr> <tr> <td>Storage</td> <td>Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 10 bags on each other.</td> </tr> </table>		Powder Color	Grey	Working Temperature	+5°C / +30°C	Open time	~35 min.	Ready for Covering	1-3 days depending on the thickness	Application tools	Suitable trowel, spike roller	Compressive Strength	28 day > 50 N/mm <sup>2</sup>	Flexural Strength	28 day > 10 N/mm <sup>2</sup>	Consumption	Varies depending on surface conditions. ~2.10 kg/m <sup>2</sup> material is required for every 1mm of thickness	Storage	Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 10 bags on each other.
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<b>Surface Preparation</b>	<p>The substrate must be sound, clean, dry, and free from dust, oil, grease, and other contaminants.</p> <p>Cracks must be repaired prior to application.</p> <p>Use of a suitable <b>ZNR Primer</b> is strongly recommended before applying the levelling screed.</p>																			
<b>Preparation Instructions</b>	<p>Add 25 kg of powder into <b>3.0 – 4.0 liters</b> of clean, cool water (depending on ambient conditions). Mix with a low-speed mixer for 3–4 minutes until a smooth and homogeneous consistency is achieved. Allow the mixture to rest for 2–3 minutes, then remix briefly before application. The prepared mixture must be used within <b>15–20 minutes</b>.</p> <p>⚠ Do not add water to hardened material.</p>																			
<b>Application</b>	<p>Pour the prepared mixture onto the surface and spread to the desired thickness using a steel trowel. Use a <b>spiked roller</b> to remove entrapped air and ensure uniform distribution.</p> <p>Recommended application temperature: <b>+5°C to +30°C</b></p>																			
<b>Considerations</b>	<ul style="list-style-type: none"> <li>• The substrate must be properly primed,</li> <li>• Prepare only as much material as can be applied within the working time,</li> <li>• Do not retemper hardened material,</li> <li>• Do not exceed the recommended water ratio,</li> <li>• Do not add additives (cement, lime, etc.) to the mixture,</li> <li>• Protect freshly applied surfaces from direct sunlight, airflow, and high temperatures,</li> <li>• Use a spiked roller to eliminate air bubbles.</li> </ul>																			

<b>General Matters</b>	Abovementioned product data and descriptions are prepared for guiding purposes as a result of our experiences and diligent studies. We, individually, cannot control or affect the variety of the related materials and various construction and working conditions. Warranty is limited to only quality of the purchased material for the applications that are not under our control. No warranty is committed for application, but only for product manufacturing. This technical flyer overrides former flyers. Quality of the work may vary depending on how professionally the product is used. In case of hesitation, please perform a small test or ask for technical help.
<b>Disposal</b>	Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.
<b>Safety Information</b>	Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.