

## ZNR™ SELF LEVELLING FLOORING EP 2K

### Two-Component, Solvent-Free Self-Leveling Epoxy Coating

<b>Product Description</b>	Two-component, solvent-free, special epoxy resin-based, self-propagating floor finish coating system.												
<b>Product Number</b>	409												
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>Storage and mounting areas,</li> <li>Maintenance workshops,</li> <li>Multi-story and underground car parks, garages and loading ramps,</li> <li>Hospitals, pharmaceutical plants, pharmaceutical warehouses, etc.,</li> <li>Schools, dressing rooms,</li> <li>Manufacturing shops,</li> <li>Beverage and food industry,</li> <li>For concrete and cement mortared surfaces exposed to normal-medium-heavy loads such as cooling cells and galleries, and on stable surfaces of the areas that do not contain dirt, have chemical durability and require resistance to ground finish coating.</li> </ul>												
<b>Characteristics /Advantages</b>	<ul style="list-style-type: none"> <li>Perfect chemical and mechanical resistance.</li> <li>Easy application.</li> <li>Suitable for dispersing decorative flakes.</li> <li>Flowable.</li> <li>Economic.</li> <li>Liquid impermeable.</li> <li>Provides glossy finish coating.</li> <li>Provides nonskid surface.</li> <li>Volatile organic compound (VOC) free.</li> </ul>												
<b>Brightness and Color</b>	Glossy, RAL. 7032 (other colors can be supplied on demand)												
<b>Technical Data</b>	<table border="1"> <tr> <td>Density</td><td>~1.30 gr/cm<sup>3</sup> (at 23 °C)</td></tr> <tr> <td>Viscosity</td><td>70 – 80 KU (~800 mPa.s)</td></tr> <tr> <td>Solid Matter Percentage</td><td>100 %</td></tr> <tr> <td>Full Curing Time</td><td>7 days</td></tr> <tr> <td>Pot life</td><td>~40 minutes</td></tr> <tr> <td>Consumption</td><td>1 mm thickness is obtained with ~1.30-1.40 kg/m<sup>2</sup> consumption. We recommend 2-3 mm of thickness for optimum protection.</td></tr> </table>	Density	~1.30 gr/cm <sup>3</sup> (at 23 °C)	Viscosity	70 – 80 KU (~800 mPa.s)	Solid Matter Percentage	100 %	Full Curing Time	7 days	Pot life	~40 minutes	Consumption	1 mm thickness is obtained with ~1.30-1.40 kg/m <sup>2</sup> consumption. We recommend 2-3 mm of thickness for optimum protection.
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<b>Chemical Durability</b>	<p>Resistant against dilute acids, dilute and concentrated alkalis, cleaning detergents and disinfectants, herbal, mineral and animal oils, fresh water and sea water, diesel, gasoline, alcohol and many other solvents.</p> <p>*Color change may be observed due to effects of chemicals. This study was held at room temperature. High temperature values and/or mix of chemicals may affect chemical durability.</p>												
<b>Surface Quality</b>	Concrete sub-surfaces must be solid and have adequate compressive strength (minimum 25N/mm <sup>2</sup> ) and tensile strength must be minimum 1.5 N/mm <sup>2</sup> . Clean foreign materials such as dirt, oil, grease, coating, surface curing agents, etc. from the base surface. The surface should be clean and dry.												
<b>Surface Preparation</b>	Concrete sub-surfaces should be prepared in a way to obtain an open porous surface using abrasive equipment as a result of removing the cement. Remove poor concrete and completely open birds-eye spaces and holes. Sub-surface repairs, filling birds-eye holes/pits and leveling the surface should be performed with mix of 0.02-0.2 mm quartz sand and suitable <b>ZNR PRIMER</b> group products. Concrete or alum surfaces should be undercoated or leveled in a way to obtain a smooth surface. All dirt and loose parts should be removed from the surface using preferably brush and/or vacuum cleaner before the application of the product.												
<b>Application Conditions and Limitations</b>	<p>Surface moisture content: moisture content &lt;4 % unit by weight.</p> <p>Relative air humidity should be maximum 80%.</p> <p>Dew point. Pay attention to condensation!</p> <table> <tr> <td>Surface Temperature</td><td>Minimum +10°C, Maximum + 30°C</td></tr> <tr> <td>Ambient Temperature</td><td>Minimum +10°C, Maximum + 30°C</td></tr> <tr> <td>Material Temperature</td><td>Minimum +10°C, Maximum + 30°C</td></tr> </table>	Surface Temperature	Minimum +10°C, Maximum + 30°C	Ambient Temperature	Minimum +10°C, Maximum + 30°C	Material Temperature	Minimum +10°C, Maximum + 30°C						
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<b>Mixing Tools / Mixture</b>	<b>ZNR Self Levelling Flooring EP</b> should be thoroughly mixed using a low speed (300 - 400 cycles/min) electric mixer or another suitable equipment. Stir Component A mechanically before mixing. After adding Component B into Component A completely, mix for 2 minutes continuously until a homogenous mixture is obtained.
<b>Application Method / Equipment</b>	<p><b>Leveling:</b>            Pour <b>ZNR Self Levelling Flooring EP</b> on the surface and smoothly propagate on the surface with a notched trowel. Then, after about 15 minutes (at +20°C), remove air bubbles by means of a spike roller on the surface. Spike roller application must be made in maximum 30 minutes (at +20°C).</p> <p><b>Dampened System:</b>            Pour <b>ZNR Self Levelling Flooring EP</b> on the surface and smoothly propagate on the surface with a notched trowel. Then, after about 15 minutes (at +20°C), remove air bubbles by means of a spike roller on the surface. Spike roller application must be made in maximum 30 minutes (at +20°C).</p> <p>Then, dampen with quartz sand excessively.</p>
<b>System Structure</b>	<p><b>Protection of Concrete Surfaces:</b></p> <p>Primer : 1 x <b>ZNR Primer EP 1500</b></p> <p>Top Coat : 2 x <b>ZNR Self Levelling Flooring EP 2K</b></p> <p><b>Textured Coating:</b></p> <p>1<sup>st</sup> Layer : 1 x <b>ZNR Primer EP 1500</b></p> <p>2<sup>nd</sup> Layer : 1 x <b>ZNR Intermediate Layer</b></p> <p>3<sup>rd</sup> Layer : 1 x <b>ZNR Self Levelling Flooring EP 2K</b></p>
<b>Package</b>	(A : 16.00 + B : 4.00) 20 kg ready-to-use sets
<b>Shelf Life</b>	Shelf life is 1 year from the date of manufacture if stored properly at a temperature between +5°C and +30°C and away from direct sunlight.
<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.