

## ZNR™ COATING EW

### Two-Component Water Based Epoxy Paint

<b>Product Description</b>	Two-component, solvent-free, water based epoxy paint, which can be applied on internal façades of buildings.												
<b>Product Number</b>	401												
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>Automotive manufacturing and service areas, car parks, garages,</li> <li>Factories, manufacturing plants,</li> <li>Food manufacturing areas, slaughter houses,</li> <li>Hospitals and operating rooms, laboratories,</li> <li>Storage areas,</li> <li>Beer factories,</li> <li>Water treatment facilities,</li> <li>Walls of tunnels, etc.,</li> <li>Cleaning rooms.</li> </ul>												
<b>Characteristics /Advantages</b>	<ul style="list-style-type: none"> <li>Can be conveniently used indoors because it is water-based. Solvent-free.</li> <li>Can be cleaned easily because it is water-based; environment-friendly.</li> <li>Perfect chemical and mechanical resistance.</li> <li>Prevents dust emission of concrete and plastered surfaces.</li> <li>Liquid impermeable. Perfect waterproofing.</li> <li>Provides nonskid and decorative surface.</li> <li>Economic.</li> <li>Non-flammable.</li> <li>Volatile organic compound (VOC) free.</li> </ul>												
<b>Brightness and Color</b>	Semi-matt, RAL. 7035 (other colors can be supplied on demand)												
<b>Technical Data</b>	<table border="1"> <tr> <td>Density</td><td>~1.75 gr/cm<sup>3</sup> (at 23 °C)</td></tr> <tr> <td>Viscosity</td><td>80 – 100 KU (~2100 mPa.s)</td></tr> <tr> <td>Thinning</td><td>5-10% with water (by weight)</td></tr> <tr> <td>Full Curing Time</td><td>7 days</td></tr> <tr> <td>Pot life</td><td>~30 minutes</td></tr> <tr> <td>Consumption</td><td>Average consumption for one layer is 0,200 -0, 300 kg/ m<sup>2</sup></td></tr> </table>	Density	~1.75 gr/cm <sup>3</sup> (at 23 °C)	Viscosity	80 – 100 KU (~2100 mPa.s)	Thinning	5-10% with water (by weight)	Full Curing Time	7 days	Pot life	~30 minutes	Consumption	Average consumption for one layer is 0,200 -0, 300 kg/ m <sup>2</sup>
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<b>Chemical Durability</b>	<p><b>Durable against:</b> Gas, Beer, Cyclohexene, Diesel Oil, Ethanol 10%, Ethylene glycol, Glycerin, Milk, Sodium Chloride Solution 3-30% Sodium Hydroxide 10%, Olive Oil, Paraffin, Petroleum, Castor Oil, Silicone Oil, Water and Soap.</p> <p><b>Partially durable against:</b> Butanol, Ethanol, Methylisobutylketone, Perchlorethylene and Xylene.</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>	<p>Concrete 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>.</p> <p>Clean foreign materials such as dirt, oil, grease, coating, surface curing agents, etc. from the concrete, alum, plastered and metal surfaces. The surface should be clean and dry.</p>												
<b>Surface Preparation</b>	<p>The surface should be prepared in a way to obtain an open porous surface as a result of removing the cement slurry from the concrete surface using abrasive equipment. Remove poor concrete and completely open birds-eye spaces and holes. Surface repairs, filling of birds-eye spaces/holes and correcting the surface should be done using solvent-free and self-propagating repair, leveling and grout mortar <b>ZNR GROUT EP 420</b> or thixotropic, solvent-free epoxy- based paste <b>ZNR PUTTY EP</b>.</p> <p>Concrete, alum or plastered surfaces should be undercoated and/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.</p>												

<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> <p>In order to reduce the risk of condensation or bubble occurrence on ground topping, temperature of the surface and non-cured ground should be minimum 3°C above the dew point.</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 COATING EW</b> should be thoroughly mixed using a low speed (300 - 400 cycles/min) electric mixer or other suitable equipment. Stir Component A mechanically before mixing. After adding Component B into Component A completely, mix for 2 minutes continuously until a uniform mixture is obtained. Avoid mixing too much in order to minimize air entrainment.						
<b>Application Method / Equipment</b>	<p>Confirm that surface moisture content, relative humidity and dew point requirements are met before the application.</p> <p><b>As primer:</b> Apply <b>ZNR Primer EW</b> on the surfaces, for which surface preparation has been completed, with a brush.</p> <p><b>As coating:</b> Proceed with <b>ZNR Coating EW</b> for coating after primer application. Apply <b>ZNR Coating EW</b> an two layers on the surfaces where primer application is completed within 8 – 24 hours using a brush or roller. Wait 8 - 24 hours between the layers.</p> <p><b>ZNR Primer EW</b> and <b>ZNR Coating EW</b> can be applied using airless spraying equipment. Improper application of the material and differences in coating thickness may cause in differences in surface gloss.</p>						
<b>System Structure</b>	<p><b>Coating</b></p> <p>Primer : 1 x <b>ZNR Primer EW</b> or 1 x <b>ZNR Coating EW</b> and 5% water</p> <p>Coating : 2 x <b>ZNR Coating EW</b></p>						
<b>Package</b>	Components A + B are offered as 10 kg ready-to-use sets, consisting of 1.700 kg + 8.300 kg, respectively.						
<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, can not 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.						