

ZNR™ COATING EP

Two-Component, Solvent-Free Epoxy Topcoat

Product Description	Two-component, solvent-free, epoxy resin-based finish coating system.														
Product Number	408														
Areas of Application	<ul style="list-style-type: none"> Floors of manufacturing and maintenance workshops, shops, offices and houses, Automobile industry, multi-storey and underground car parks, garages, loading ramps, Schools, hospitals, pharmaceutical industry, electronics industry, dressing rooms, treatment facilities, Food - beverage manufacturing and warehouse areas and food industry, Cooling cells and galleries, For protecting concrete, cement plaster, asbestos/cement and metal surfaces against atmospheric, chemical and mechanical factors, As floor covering on the volumes of industrial facilities without heavy traffic where dust emission affects production such as textile industry. 														
Characteristics /Advantages	<ul style="list-style-type: none"> Perfect chemical and mechanical resistance. Can be conveniently used indoors because it does not contain solvent. Flammable, easy to apply. Suitable for dispersing decorative flakes. Provides water-proofing because of its liquid impermeability. Provides glossy finish coating. Provides nonskid surface. Economic. Volatile organic compound (VOC) free. 														
Brightness and Color	Glossy, RAL. 7035 (other colors can be supplied on demand)														
Technical Data	<table border="1"> <tr> <td>Density</td><td>~1.70 gr/cm³ (at 23 °C)</td></tr> <tr> <td>Viscosity</td><td>85 – 110 KU (~3000 mPa.s)</td></tr> <tr> <td>Thinning</td><td>No</td></tr> <tr> <td>Superficial Dry Time</td><td>4-6 hours (at 23°C)</td></tr> <tr> <td>Full-Dry Time</td><td>16-24 hours (at 23°C)</td></tr> <tr> <td>Full Curing Time</td><td>7 days</td></tr> <tr> <td>Pot life</td><td>~30 minutes</td></tr> </table>	Density	~1.70 gr/cm ³ (at 23 °C)	Viscosity	85 – 110 KU (~3000 mPa.s)	Thinning	No	Superficial Dry Time	4-6 hours (at 23°C)	Full-Dry Time	16-24 hours (at 23°C)	Full Curing Time	7 days	Pot life	~30 minutes
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Chemical Durability	<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>														
Surface Quality	Concrete surfaces must be solid and have adequate compressive strength (minimum 25N/mm ²) and tensile strength must be minimum 1.5 N/mm ² . 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.														
Surface Preparation	<p>Highly glossy and glossy surfaces and/or surfaces with concrete hardener should be prepared in a way to obtain an open porous surface using abrasive equipment (as a result of removing the cement slurry from the concrete surface).</p> <p>Remove loose and poor parts on the concrete surface, completely open birds-eye spaces, holes, cracks and pits, and remove all dust and loose parts from the surface preferably with a vacuum cleaner and/or cleaning brushes. Concrete, alum or plastered surfaces should be undercoated with ZNR PRIMER EP and repaired or leveled in a way to obtain a smooth surface. After completing surface preparation, proceed with ZNR COATING EP application.</p>														
Application Conditions and Limitations	<p>Surface moisture content: moisture content <4 % unit by weight.</p> <p>Relative air humidity should be maximum 80%.</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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Mixing Tools / Mixture	ZNR COATING EP 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 2-5 minutes continuously until a homogenous mixture is obtained. Avoid mixing too much in order to minimize air entrainment.
Application Method / Equipment	ZNR Coating EP can be applied using a brush, roller or preferably pulverizer.
System Structure	<p>Protection of Concrete Surfaces:</p> <p>Primer : 1 x ZNR PRIMER EP</p> <p>Repairs : with 1 x ZNR GROUTEP 420 or ZNR EP 1500 + Filling Quartz mix repair - leveling mortar.</p> <p>Coating : 2 x ZNR Coating EP</p>
Consumption / Dosage	<p>Coating System:</p> <p>Primer : 1 x ZNR PRIMER EP 0.100 – 0.200 kg/m²</p> <p>Repairs : with 1 x ZNR GROUTEP 420 or ZNR EP 1500 + Filling Quartz mix repair - leveling mortar. Consumption is variable.</p> <p>Roller coating : 2 x ZNR Coating EP ~0.300-0.400 kg/m² is applied for every layer.</p> <p>*The above values are theoretical and do not include additional material needs that may depend on surface porosity, profile, leveling differences and loss.</p>
Package	(A : 12.9 + B : 2.1) 15 kg ready-to-use sets
Shelf Life	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.
General Matters	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.
Disposal	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.
Safety Information	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.