

## ZNR™ WP CRYSTAL

### Crystallized Water Insulation Material

<b>Product Description</b>	Cement based, one-component, easy-to-use crystallized water insulation material with capillary effect that provides water impermeability by penetrating into the concrete.																								
<b>Product Number</b>	105																								
<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>Water reservoirs,</li> <li>Lift shafts,</li> <li>Underground garages and depots,</li> <li>Sealing holes and concrete pipes,</li> <li>Curtain walls, foundations, basements and bridges,</li> <li>Hot springs and public baths,</li> <li>Tunnels and galleries,</li> <li>Wet areas such as kitchen, balcony, terrace, bathroom, WC, swimming and decorative pools, etc.</li> <li>Constructions that are under water level or affected by water intake..</li> </ul>																								
<b>Characteristics /Advantages</b>	<ul style="list-style-type: none"> <li>Perfectly penetrates into concrete elements and fills in capillary holes.</li> <li>Economic and low labor costs.</li> <li>Suitable for indoor and outdoor applications. (can be applied both in negative and positive areas)</li> <li>Easy to prepare and apply.</li> <li>Can be safely applied on horizontal or vertical surfaces.</li> <li>Resistant to water and frost after curing.</li> </ul>																								
<b>Reference Standard</b>	TS EN 1504-2																								
<b>Technical Data</b>	<table border="1"> <tr> <td>Package</td><td>20 kg</td></tr> <tr> <td>Color</td><td>Grey</td></tr> <tr> <td>Density (Fresh Mortar)</td><td>~1.80 kg/m<sup>3</sup> ( 23 °C )</td></tr> <tr> <td>Surface Temperature</td><td>+5°C / +35°C</td></tr> <tr> <td>Pot life</td><td>~ 1 hour ( 23 °C )</td></tr> <tr> <td>Pressurized Water Strength</td><td>5 bars (Negative and Positive directions)</td></tr> <tr> <td>Bond strength</td><td>≥ 0.8 ( N / mm<sup>2</sup> )</td></tr> <tr> <td>Application tools</td><td>Application can be made with a brush or trowel.</td></tr> <tr> <td>Water Vapor Permeability</td><td>&lt; 0.1 (Class I)</td></tr> <tr> <td>Capillary Water Absorption</td><td>≤ 0.1 (kg/m<sup>2</sup> h<sup>1/2</sup>)</td></tr> <tr> <td>Consumption</td><td>~1.80 kg/m<sup>2</sup> material for 1mm of thickness (variable, depending on surface conditions)</td></tr> <tr> <td>Storage</td><td>Shelf life is 12 months. Products should be stacked in a cool and dry place.</td></tr> </table>	Package	20 kg	Color	Grey	Density (Fresh Mortar)	~1.80 kg/m <sup>3</sup> ( 23 °C )	Surface Temperature	+5°C / +35°C	Pot life	~ 1 hour ( 23 °C )	Pressurized Water Strength	5 bars (Negative and Positive directions)	Bond strength	≥ 0.8 ( N / mm <sup>2</sup> )	Application tools	Application can be made with a brush or trowel.	Water Vapor Permeability	< 0.1 (Class I)	Capillary Water Absorption	≤ 0.1 (kg/m <sup>2</sup> h <sup>1/2</sup> )	Consumption	~1.80 kg/m <sup>2</sup> material for 1mm of thickness (variable, depending on surface conditions)	Storage	Shelf life is 12 months. Products should be stacked in a cool and dry place.
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<b>Surface Preparation</b>	Remove loose parts, grease and other chemicals from the application area and saturate the surface. Pay attention to avoid ponding. If water leakage exists on the surface, stop the leakage using <b>ZNR WP Plug</b> .																								
<b>Preparation Instructions</b>	Pour entire <b>ZNR CRYSTAL</b> 20 kg powder into approximately 5.0 - 6.0 lt of clean water (for brush application) and mix for 3 - 4 minutes using a suitable low speed mixer until a smooth and homogenous mixture is obtained. If the application will be made with a trowel, amount of the mixing water to be used should be 5 lt. The mixture gets ready for application after re-mixing after resting for approximately 3-5 minutes.																								
<b>Application</b>	In terms of application priority, start with the walls first and then proceed with the ground. It is recommended to apply minimum two layers for applications with brush.																								
<b>Considerations</b>	<ul style="list-style-type: none"> <li>Keep in mind that water retention feature will be available after 5 to 7 days.</li> <li>Keep the surface humid and avoid drying for 5 days after application.</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, 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.