

## ZNR™ HYDROLIME

### Hydraulic Lime Injection Mortar

<b>Product Description</b>	Natural hydraulic lime based special mix containing pozzolanic fillings and micronized carbonates and prepared for historical buildings. Cement and asbestos-free injection mortar.
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<b>Product Number</b>	511
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<b>Areas of Application</b>	<ul style="list-style-type: none"> <li>For retrieving disappearing bearing capacities of stone, brick or alternate walls,</li> <li>Repair or reinforcement of historical masonry constructions,</li> <li>Repair of cracks of masonry domes and vaults,</li> <li>Creating bases for existing historical masonry walls,</li> <li>Filling large gaps,</li> <li>Especially for repair and reinforcement of cracks.</li> </ul>
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<b>Characteristics /Advantages</b>	<ul style="list-style-type: none"> <li>Easy to apply.</li> <li>Cement-free.</li> <li>Asbestos-free.</li> <li>High adherence strength.</li> <li>Capable of breathing, high water vapor permeability.</li> <li>Perfectly harmonizes with bricks, stones and tuff materials without spoiling humidity permeability characteristics of the walls.</li> </ul>
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#### Technical Data

Powder Color	Yellowish
Package	20 kg kraft bags
Dry Powder Density	~ 1.6 kg/l
Wet Density	~1.75 kg/m <sup>3</sup>
Working Temperature	+5°C / 35°C
Pot Life	~ 30 minutes ( 23°C )
Application tools	The material can be applied using suitable injection equipment.
Consumption	Variable
Storage	Shelf life is approximately 12 months. Products should be stacked in a cool and dry place, with maximum 8 bags on each other.

<b>Surface Preparation</b>	The application surface should be clean, smooth and firm and cleaned from adhesion preventive materials and wastes such as dust, grease, dirt, rust, detergent, etc. Remove the weak parts on the surface. Wet absorbent surfaces in advance. No water water body or drops should remain on the surface.
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<b>Preparation Instructions</b>	Pour the powder material (20 kg) into 5.5-6.5 lt (variable, depending on air temperature) clean and cool mixing water and mix with a proper low-speed mixer for 3-4 minutes to obtain a homogenous and smooth mixture. Do not add water into the powder material.
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<b>Application</b>	Inject <b>Hydrolime Injection Mortar</b> into the plastered cracks after 48 hours with an injection machine. Before plastering the cracks, place injection hoses into the cracks with 40-50 cm intervals.
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<b>Considerations</b>	Ambient and applicaiton surface should not be below +5°C and above +35°C during application. Hydrolime333 injection works should be done by the appliciers with adequate technical competence. Suitable mechanical mixers must be used for mixing. Do not mix with hand. Ambient and surface temperature should not be below the allowed minimum temperature for the material to complete its setting. <b>Cleaning of Tools:</b> after application, clean the used tools and equipment with water. After hardening, <u>Hydrolime 333 can be cleaned from the surface only mechanically</u> .
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<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.
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<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. <u>It is dangerous to dispose by burning the product remnants.</u>
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<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,
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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.

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