

ZNR™ LATEKS

General Purpose Binding Additive

Product Description			A one-component liquid admixture based on styrene-butadiene copolymer (SBR) technology , designed to improve adhesion, flexibility, water resistance, and durability of cement-based mortars and concretes. The product enhances the bonding performance of cementitious materials to a wide range of substrates while reducing water permeability and increasing resistance to abrasion, freeze-thaw cycles, and environmental effects. It can be used as an admixture in repair mortars, renders, screeds, tile adhesives, waterproofing mortars, and other cement-based applications requiring improved performance. Suitable for use as a bonding aid, waterproofing additive, and general-purpose performance enhancer in cementitious systems.																
Product Number			804																
Public Works Number	Item	04.613/1-i																	
Areas of Application			• Cement-based plaster mortars and rough rendering applications. • Repair mortars for concrete and masonry rehabilitation works. • Cementitious coating and protective mortar systems. • Masonry mortars used for brick, block, and stone construction. • Tile, ceramic, and natural stone bonding mortars. • Cement-based screeds, leveling screeds, and bonding primers beneath screeds. • Waterproofing mortars and cementitious repair systems requiring enhanced adhesion and flexibility. • Dust-proofing treatment for industrial floor sub-bases and raised-floor systems. • Under-carpet applications to improve adhesion, reduce dusting, and enhance slip resistance. • Concrete repair, renovation, and refurbishment projects requiring improved bonding and durability. • General-purpose modification of cement-based mortars to improve adhesion, flexibility, abrasion resistance, and water resistance.																
Characteristics /Advantages			• Improves the water resistance and waterproofing performance of cement-based mortars and concrete. • Provides excellent adhesion to a wide variety of construction substrates. • Enhances flexibility and elasticity, reducing the risk of cracking caused by shrinkage and thermal movement. • Improves mechanical strength and overall durability of cementitious systems. • Water-based, solvent-free, and virtually odorless formulation. • Increases resistance to abrasion and surface wear. • Resistant to alkaline environments commonly encountered in cement-based applications. • Non-toxic and suitable for a wide range of construction and repair applications. • Reduces dusting and improves surface cohesion. • Enhances freeze-thaw resistance and long-term weather durability. • Easy to use and compatible with most cement-based mortar and screed systems.																
Technical Data			<table><tr><td>Color and Appearance</td><td>White Liquid Emulsion</td></tr><tr><td>Package</td><td>5 kg or 20 kg Drums or 1000 kg IBC</td></tr><tr><td>Density</td><td>~1.00 kg/ ml</td></tr><tr><td>Viscosity</td><td>20 – 25 KU (60 mpa.s)</td></tr><tr><td>Ambient Temperature</td><td>Between +5 °C and +25 °C</td></tr><tr><td>Danger class</td><td>No</td></tr><tr><td>Consumption</td><td>Variable</td></tr><tr><td>Storage</td><td>12 months in a cool and dry environment in the original close package. Frost sensitive.</td></tr></table>	Color and Appearance	White Liquid Emulsion	Package	5 kg or 20 kg Drums or 1000 kg IBC	Density	~1.00 kg/ ml	Viscosity	20 – 25 KU (60 mpa.s)	Ambient Temperature	Between +5 °C and +25 °C	Danger class	No	Consumption	Variable	Storage	12 months in a cool and dry environment in the original close package. Frost sensitive.
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Surface Preparation			All application surfaces must be clean, sound, and free from dust, loose particles, oil, grease, curing compounds, paint residues, and any other contaminants that may adversely affect adhesion																

	Remove all weak, friable, or deteriorated material prior to application. Any surface defects should be repaired using appropriate repair materials before proceeding with the application. The substrate should be properly prepared to ensure maximum penetration, adhesion, and long-term performance of the modified cementitious system.
Preparation Instructions	Depending on the intended application and performance requirements, ZNR™ SBR may be diluted with clean water at ratios ranging from 1:1 to 1:4 (ZNR™ SBR : Water). The appropriate dilution ratio should be selected according to the application type, substrate condition, and desired performance characteristics. Mix thoroughly until a uniform and homogeneous solution is obtained before use. The prepared mixture may then be incorporated into cement-based mortars or applied as a bonding primer, depending on the application requirements. For specific mixing ratios and application recommendations, refer to the relevant application guidelines or contact ZNR™ Technical Services.
Application	<u>Bonding Bridge Between Existing and New Concrete</u> Dilute ZNR™ LATEKS with clean water at a ratio of approximately 1:2 (ZNR™ LATEKS : Water). Prepare a bonding slurry by mixing the diluted solution with a 1:1 cement-to-sand blend until a brushable, creamy consistency is obtained. <u>Apply the bonding slurry thoroughly onto the properly prepared existing concrete surface. While the bonding coat is still tacky and before it has completely dried, place the new concrete or screed onto the treated surface.</u> <u>Screed Applications</u> Depending on the required performance characteristics of the screed, add approximately 3–5 kg of ZNR™ LATEKS per 1 m³ of screed mortar. For optimum adhesion, it is recommended to prime the existing concrete substrate with a suitable bonding coat prior to screed application. <u>Plaster Mortar Applications</u> Add approximately 5 kg of ZNR™ LATEKS per 1 m³ of plaster mortar to improve adhesion, flexibility, durability, and water resistance. <u>Highly absorbent substrates should be pre-wetted approximately 12 hours before application.</u> <u>Repair Mortar Applications</u> Prepare a repair mortar with a trowel-applicable consistency by replacing part of the mixing water with a 50:50 mixture of ZNR™ LATEKS and clean water. <u>Mix the prepared liquid with the cement-sand mortar until a homogeneous repair mortar suitable for application is obtained.</u>
General Matters	The information, technical data, recommendations, and application details contained in this Technical Data Sheet are based on our current knowledge, laboratory testing, field experience, and extensive studies. They are provided solely for guidance and informational purposes. As the quality of substrates, materials used in conjunction with the product, environmental conditions, workmanship, and application methods are beyond our control, no warranty can be given regarding the final performance of the product in any specific application. Our responsibility is limited solely to the quality of the product supplied. No warranty, express or implied, is given with respect to application results, workmanship, or suitability for a particular purpose. This Technical Data Sheet supersedes all previous editions and replaces any previously published versions. The quality, durability, and performance of the completed work depend on proper substrate preparation, correct application procedures, site conditions, and workmanship. Users are responsible for determining the suitability of the product for their intended use and for carrying out any necessary preliminary testing. In cases of uncertainty, a trial application is recommended or technical assistance should be obtained from ZNR™ Technical Services before commencing full-scale application.
Disposal	Empty packaging should be disposed of through authorized collection or recycling facilities in accordance with applicable local and regional regulations and recycling requirements. Unused product residues and waste materials should be allowed to dry and fully cure before disposal. Hardened material may be disposed of as construction and demolition waste in compliance with local environmental regulations. Do not discharge liquid product residues into drains, sewers, waterways, groundwater, or soil. Do not burn product residues, packaging, or waste materials. Burning may release hazardous substances and may pose significant health, safety, and environmental risks.
Safety Information	Keep out of the reach of children. Keep containers tightly closed when not in use. Wear appropriate protective gloves, safety goggles, and protective clothing during handling and application. Avoid contact with skin and eyes. In case of skin contact, wash immediately with plenty of

soap and water.

In case of eye contact, rinse cautiously with clean water for several minutes and seek immediate medical attention.

Do not ingest the product. Avoid prolonged or repeated contact with skin.

Ensure adequate ventilation during application and handling.

For detailed information regarding hazards, safe handling, storage, disposal, first-aid measures, and emergency procedures, please refer to the relevant Material Safety Data Sheet (MSDS) or Safety Data Sheet (SDS).
