Techno Waterproof™ LNR

Liquid Nano Rubber

PRODUCT DESCRIPTION

Techno Waterproof™ LNR is an innovative waterproofing material designed for use on various building surfaces. Its nanotechnology-enhanced formulation provides a seamless, elastic membrane that adheres perfectly to concrete, metal, wood, and other construction materials. This advanced product ensures long-term protection against water infiltration, UV rays, and temperature fluctuations, making it ideal for roofs, walls, foundations, and terraces. Liquid Nano Rubber is highly durable, flexible, and resistant to environmental stressors, offering an effective solution for modern construction challenges. Easy to apply and suitable for both residential and commercial projects, it enhances the durability and performance of building surfaces.

- Buildings Structures
- Transportation Infrastructure
- Water & Wastewater
- Oil, Gas & Industrial
- Waterfront Structures
- Industrial Facilities

TECHNICAL PROPERTIES

Property	Value
Consumption Rate (kg/m²)	0.25 – 0.75
Drying Time (hours)	Surface: 2 – Depth: 6 – Final: 24-48
Tensile Strength (MPa)	4.27 – 41.5
Elongation at Break (%)	180 – 850
Adhesion Strength (MPa)	0.55 – 4.35
Chemical Resistance	Resistant to most solvents and seawater
Thermal Shock Resistance	-30°C to +100°C
Impact Resistance (N)	> 745
Environmental Resistance (%)	> 90

PHYSICAL PROPERTIES

Property	Value
Color	White, Black, Milky, Pool Blue, Custom Color
Density (g/cm³)	1.0
Viscosity (cps)	12,000 – 25,000
pH	10 – 12
Solid Content (% by weight)	41 – 63
Shelf Life	1 year from production (before opening)
UV Resistance	Yes (over 250 hours)
Water Vapor Resistance (kg/m²·s)	0.0004 – 0.59

ADVANTAGES

- High-Performance Waterproofing
- Resistant to Thermal Fluctuations
- UV and Chemical Resistance
- High Post-Curing Flexibility
- Applicable on Various Substrates
- Fast and Easy Application
- Long-Lasting Surface Protection
- Crack Repair and Moisture Barrier
- High Mechanical Strength
- Superior Impact and Abrasion Resistance
- Extended Service Life
- Cost-Effective Solution
- Low Maintenance Requirements
- Self-Healing Properties

TYPICAL USES

- Roof & Ceiling Waterproofing
- Basement & Foundation Waterproofing
- Perimeter Wall Waterproofing
- Pool & Tank Waterproofing
- Metal Corrosion Protection
- Bathroom & Kitchen Waterproofing
- Parking Lot Waterproofing
- Industrial Surface Protection
- Gypsum & Cement Moisture Proofing
- Protective Coating for Surfaces
- Negative Pressure Waterproofing
- Positive Pressure Waterproofing

PACKAGING

Moisture-Proof Packaging, 5,10,20 Kg.

DESIGN

The design of Techno Waterproof™ LNR should be tailored based on the specific requirements of the project. Factors such as application method, number of layers, and desired thickness should be considered. For optimal performance, it is recommended to consult with our company to evaluate design factors including environmental resistance, flexibility, and durability.

INSTALLATION PROCEDURE

SURFACE PREPARATION

Before applying Techno Waterproof™ LNR, ensure the substrate is thoroughly clean, dry, and free from contaminants such as dust, oil, grease, or rust. Any cracks, gaps, or surface irregularities must be properly sealed using an appropriate sealant to ensure uniform applica-tion. For certain surfaces, especially porous, aged, or smooth sub-strates, the application of a primer is highly recommended to improve adhesion and bonding strength. Proper surface preparation is essential to ensure optimal adhesion and performance of the coating.

LIQUID RUBBER PREPARATION

Techno Waterproof™ LNR is a pre-configured, ready-to-use product, requiring no mixing with other substances. Simply open the container and apply as specified in the product datasheet. In cases where thinning is necessary, it can be done with water, oil-based thinner, or gasoline depending on the base solvent of the product.

FIRST LAYER APPLICATION

Apply the first layer of Techno Waterproof™ LNR evenly to the pre-pared surface using a high-quality brush, roller, or spray equipment. The required thickness of the first layer should be in accordance with the project specifications. Allow the first layer to cure completely be-fore proceeding to the next step. Curing time typically ranges from 6 to 24 hours, depending on environmental conditions and layer thickness.

SECOND LAYER APPLICATION (IF NECESSARY)

If additional waterproofing or enhanced thickness is required, apply a second layer after the first has fully cured. The second layer should be applied using the same technique as the first, ensuring even coverage with a brush, roller, or spray application. Once the final layer has cured, the waterproofing and sealing process will be complete, and the sur-face will be ready for use.

FINAL INSPECTION

Upon completion of the application, perform a thorough inspection of the coated surface. Ensure that the entire surface is uniformly covered, with no defects such as cracks or voids. If any imperfections are found, additional layers or touch-ups should be applied to guarantee complete and effective coverage. Proper inspection ensures the integrity and long-lasting performance of the waterproofing system.

LIMITATIONS

- Apply at temperatures between 5°C and 35°C (41°F and 95°F). Avoid application in extreme low or high temperatures as it may adversely affect curing and coating performance.
- Ensure the surface is dry, clean, and free from contaminants. Do not apply to wet or saturated surfaces.
- Maintain a recommended layer thickness of 1-2 mm per coat. Use multiple thin coats rather than a single thick layer to achieve optimal durability.
- Avoid application in high humidity conditions or when rain is anticipated within the next 12 hours.
- Allow curing time of up to 24 hours at 20°C (68°F). Ensure a minimum 6-hour drying interval between consecutive layers.

CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

FAIRST AID

Skin:

Wash affected skin with water and soap. If any material is embedded, gently remove with tweezers. Discard contaminated clothing. Seek medical attention if irritation or adverse reactions occur.

Eyes:

Immediately flush with a continuous stream of water for at least 20 minutes. Prompt washing helps prevent eye damage. Seek medical attention if irritation persists.

DISCLAIMER OF LIABILITY

TECHNOPOL warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase.

TECHNOPOL shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.