

ZNR™ WP 180

Polyurethane Based Waterproofing

Product Description	Two-component, solvent-free, modified polyurethane waterproofing membrane offering hard-elastic properties combined with high thermal and mechanical resistance.
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Product Number	112
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Areas of Application	<ul style="list-style-type: none"> • Terraces and roofs • Water channels, streams, and concealed gutters • Retaining walls, curtain walls, foundations, basements, galleries, and foundation piles • Wet areas such as kitchens, balconies, terraces, bathrooms, WC, swimming pools, and decorative pools • Industrial and commercial facilities including factories, airport hangars, warehouses, shopping centers, pharmaceutical production areas, hospitals, car parks, and bridges
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Characteristics /Advantages	<ul style="list-style-type: none"> • Exhibits high resistance to all external aggressive agents present in soil environments • Provides excellent adhesion to a wide range of substrates, including concrete, asphalt, sheet metal, and steel • Easy to prepare and apply by brush, roller, or spray equipment • Offers outstanding thermal stability and is highly resistant to abrasion, impact, and tearing • Possesses excellent elongation capability, effectively bridging cracks and accommodating movement; suitable for both horizontal and vertical applications • Permits vapor diffusion while preventing water ingress ("bleeding") from the substrate • Forms a seamless, continuous, and joint-free waterproofing membrane
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Technical Data

Package	(A:16.60 kg, B:3.40kg) (20 kg sets)
Appearance	Liquid (grey, white, cream colors)
Density	~1.45 gr/cm ³ (at 23 °C) ASTM D1475
Viscosity	105 - 110 KU (at 23 °C) ASTM D2196-86
Application surface temperature	+5°C / +35 °C
Shore A Hardness	65-70
Solids Content by Weight	100% (ASTM D2369)
Tensile Strength	<3 Mpa
Elongation at Break	200%
Adhesion to Concrete	< 3 Mpa
Water Vapor Transmission	0,06 gr/m ² .hr
Recoat Time	8-12 hrs.
Pedestrian Walking Time	8-12 hrs.
Full-Dry Time	Opening for Pedestrian Traffic is 3 days and setting time end is 7 days.
Pot life	~30 minutes
Consumption	1.45 kg/m ² for 1mm of thickness (variable, depending on surface conditions and usage purpose)
Heat Resistance	100°C
Storage	Shelf life is 6 months. Products should be stacked in a cool and dry place.

Surface Preparation	Remove all loose materials, grease, and contaminants from the application area. Repair any surface defects with ZNR REPAIR Mortar . For optimal adhesion and performance, it is recommended to prime the substrate with ZNR Primer P 400 prior to application. All expansion joints and movement joints must be filled in advance using a suitable elastomeric joint sealant .
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Preparation Instructions	Pre-mix Component A thoroughly using a suitable mechanical mixer. Then, pour Component B (the hardener, supplied in the smaller container) into Component A (the larger container). Mix both components together with a mechanical mixer until a uniform, homogeneous consistency is achieved. After mixing, irreversible gelling will begin within approximately 30 minutes, so the material must be applied promptly without prolonged standing time.
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Application	Apply the product evenly to the properly prepared surface, taking care to avoid excessive buildup. The material can be applied using a roller, brush, or steel trowel. If a multi-layer application is planned, allow a minimum interval of 12 hours between coats.
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Considerations	<ul style="list-style-type: none"> The application area of ZNR WP 180 must be protected from any water contact for at least 24 hours after application. Early or delayed drying times may occur depending on environmental conditions and application parameters. In confined or poorly ventilated areas, ensure adequate ventilation or wear appropriate respiratory protection (gas masks). Ambient temperature, substrate conditions, and application methods can significantly affect product performance and curing times. Do not apply below the minimum recommended temperature. Protect freshly applied material from direct sunlight, rain, frost, and contamination until fully cured. Tools and equipment should be cleaned immediately after application, as hardened material can only be removed mechanically. Always mix the components in the specified proportions. Adding excessive water or solvent is not recommended and may compromise performance. For further details on safe handling, storage, and disposal, refer to the product's Safety Data Sheet (SDS).
Disclaimer	<p>The product data and descriptions provided above are intended solely as general guidance, based on our experience and diligent research. Since we have no control over the selection of materials, methods, and site conditions, no warranty is given beyond the quality of the supplied product itself.</p> <p>Warranty is limited exclusively to the quality of the purchased material. No guarantee is extended regarding the suitability or results of the application, which remains the responsibility of the user.</p> <p>This technical document supersedes any previous publications. The quality and performance of the final work may vary depending on the professionalism of application. In case of any doubt, it is strongly recommended to perform a preliminary test or to seek technical assistance.</p>
Disposal	<p>Empty packaging should be disposed of in collection bins in accordance with local or regional regulations and recycling requirements. Any residual material must be allowed to fully dry and harden before disposal as construction waste. Do not dispose of product remnants by burning, as this may pose serious hazards.</p>
Safety Information	<p>Keep the product out of reach of children. Always keep containers tightly closed when not in use. It is recommended to wear protective gloves and safety goggles during application.</p> <p>In case of skin contact, wash immediately with soap and water. If the product comes into contact with the eyes, rinse thoroughly and seek medical attention without delay.</p> <p>For further information, please refer to the relevant Material Safety Data Sheet (MSDS).</p>