

ONE-COMPONENT SOLVENT BASED POLYURETHANE ELASTOMERIC WATERPROOFING COATING

hahne PU-LWM is a single-component, solvent-based, high-tensile, moisture-cured modified polyurethane elastomeric liquid membrane designed for waterproofing applications. It is hydrophobic and highly elastic and, on application, reacts with atmospheric moisture to form a seamless, monolithic waterproofing membrane.



PRODUCT INFORMATION

Area of Applications

- Roofs, terraces and podiums.
- Terrace gardens.
- Concrete roof slabs and other suitable cementitious substrates.
- Waterproofing systems requiring a seamless, flexible polyurethane membrane.

Features and Benefits

- Excellent waterproofing characteristics.
- High crack-bridging capability.
- Monolithic and seamless membrane.
- Excellent adhesion to concrete when applied over a suitable primer.
- Resistant to root growth.
- High durability and high elongation.
- Easy application by brush, roller or airless spray.
- Resistant to most mild acids and alkalis.

Consumption

Approx. 1.6-1.65 kg/m² @ 1 mm DFT in two coats.

*Consumption will vary depending on site and substrate conditions

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TECHNICAL SPECIFICATIONS

Property	Test Method	Result
Density	ASTM D 1475-2013	1.30 ± 0.5 g/cc
Non-Volatile Content (Solid Content)	ASTM D 6511-2018	85 ± 5 %
Tensile Strength	ASTM D 412-2016	2 ± 0.5 N/mm ²
Elongation at Break	ASTM D 412-2016	500 ± 50 %
Tear Strength	ASTM D 624-2000	> 10 N/mm
Crack Bridging Ability	EN 1062-7(A)-2004	3 mm
Puncture Resistance	ASTM E 154-2008	> 30 N
Shore A Hardness	ASTM D 2240-2015	> 65
Pull-off Adhesion Strength to Concrete	ASTM D 7234-2022	> 1.5 N/mm ²
Average Adhesion in Peel after Water Immersion	ASTM C 794-2018	> 10 N
Extensibility After Heat Ageing, Min - 6.4 mm	ASTM C 1522-2013	Pass
Depth of Water Permeability @ 5 Bar	EN 12390-8-2019	Nil
Water Absorption, 24 Hrs.	ASTM D 570-2022	< 15 %
VOC Content	IS 101: Part 2, Sec 3: 2015	< 50 g/Ltr.
Water Vapour Transmission Rate	ASTM D1653-2013	25 g/m ² ·Day
Dynamic Crack Bridging Ability @ - 26°C	ASTM C 1305-2025	Pass
Root Resistance	CEN-TS-14416-2014	No Penetration

APPLICATION PROCEDURE

Surface Preparation

- The substrate must be sound, stable, clean and free from dust, loose particles, oil, grease, algae, fungus and other contaminants that may adversely affect adhesion.
- Remove all weak, loose or poorly bonded material from the substrate by suitable mechanical means and ensure that the surface is adequately prepared before commencing application.
- Existing cracks, joints, surface undulations and other visible defects should be suitably repaired using compatible repair materials before application of the waterproofing system.
- Ensure that the substrate has a suitable surface profile and moisture content in the substrate should not be above 5%.

Priming

- Stir **hahne PrimeStick-PU** thoroughly before application to ensure uniform consistency.
- Apply a single, uniform coat of **hahne PrimeStick-PU** over the prepared substrate using a suitable brush or roller.
- Ensure complete and uniform coverage, particularly over porous areas, corners and other locations where additional penetration may be required.
- Allow the primer to dry completely before proceeding with the application of **hahne PU-LWM**. The primer should not remain wet or tacky at the time of membrane application.

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Application

- Stir **hahne PU-LWM** thoroughly before application to ensure a uniform and homogeneous material.
- Apply **hahne PU-LWM** using a suitable brush or roller in two uniform coats, maintaining the recommended consumption for achieving the required dry film thickness.
- Apply the first coat uniformly over the primed substrate, ensuring that the material is evenly distributed without excessive build-up, pinholes or missed areas.
- Where reinforcement is specified as part of the waterproofing system, immediately embed the recommended non-woven polyester reinforcement into the first coat while the material is still wet. Use a suitable roller to ensure proper wetting of the reinforcement and to remove trapped air or wrinkles.
- Allow the first coat to dry adequately before applying the second coat. The second coat should be applied uniformly and preferably in a direction perpendicular to the first coat to ensure consistent coverage.
- Ensure that the required total dry film thickness is achieved after completion of the specified coats. Additional material may be required depending on substrate porosity, surface profile and site conditions.
- Protect the freshly applied coating from rain, water, dust and other contamination until it has sufficiently dried.
- Avoid application when the ambient or substrate temperature is below 5°C or above 35°C, and do not apply during foggy conditions.

PACKAGING, STORAGE AND SAFETY

Packaging

- **hahne PU-LWM** is available in 25 kg metal buckets.

Storage and Shelf Life

- Store the adhesive in a cool, dry place, away from direct sunlight and moisture, to maintain its quality.
- The shelf life of the product is 12 months if stored in its original sealed packaging.

Safety Instructions

- Use protective gloves and safety glasses during application.
- Avoid contact with eyes or prolonged contact with skin. In case of contact, flush thoroughly with water. Do not ingest.
- Non-toxic and non-flammable.
- Refer to the Safety Data Sheet before use.

DISCLAIMER: The information and application guidelines provided by the company and its representatives are intended solely as a general reference. Users are strongly encouraged to conduct their own tests and trials to verify the product's suitability for their specific requirements before proceeding with full-scale use. As the identification of underlying issues, the quality of other materials and the workmanship on-site are beyond our control, we cannot offer any express or implied guarantees regarding the results. The company disclaims any liability for damages or unsatisfactory outcomes that may arise from the use of our products.