

EVERflow®

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TECHNICAL DATA SHEET

version v.03-03-2025



EVERLASTIC R204

LIQUID POLYUREA MEMBRANE FOR WATERPROOFING



A two-component, aromatic, liquid polyurea, that creates a seamless, joint-free, and waterproof membrane. This membrane is ideal for use on new or existing structures and can be applied using a short-nap acrylic wool roller or a notched trowel.

For application in the following situations:

- Sloped/flat walkable roofs, balconies, and overhangs
- Green roofs/terraces and walls
- Structural concrete slabs, concrete slabs and foundations
- Swimming pools, artificial lakes, and ponds



Technical and chemical properties

Density ISO 1675 Viscosity ISO 2555	1.40 ±5 g/cm3 3,000-4,000 cps
Solids Content ISO 1768 VOC content	85% 250 g/L
Application thickness	1.5 mm (60 mils)
Product Yield	100 sq. ft / kit 2.3 kg / sqm (DFT) *depending on application method and conditions
Pot life Dry time Full Cure	20-25 minutes 3 hours 6 days
Application temperature range (substrate and environment) Use temperature range (environment)	3-35°C (37-95°F) Maximum environment humidity 85%
Application method	short-nap acrylic wool roller or a notched trowel
Packaging and color	19.2 kg (42 lbs.) A + 0.8 kg (1.8 lbs.) B Available in dark grey (RAL 7038)
Storage and shelf life	12 months in original containers in a dry environment 5-35°C (41-95°F). Keep away from direct sunlight, extreme heat/cold or moisture. Once opened, product must be used completely.

The logo for EVERflow, with 'EVER' in white and 'flow' in orange, followed by a registered trademark symbol.

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Surface preparation for cement/concrete/metal substrates:

Remove dust, dirt, grease, oil, and all other contaminants with proper cleaner/degreaser. Prepare the surface mechanically as per ICRI-CSP2 profile by diamond grinding to ensure removal of laitance, curing agents and sealers. The compressive strength of a newly poured concrete substrate must be at least 25 MPa (3635 psi) after 28 days of cure and at least 1.5 MPa (218 psi) tensile strength. Be careful with condensation (at least 3 degrees above the dew point). All cracks, holes and irregularities must be repaired with a crack filler prior to applying the coating.

Application method (classic application)

Open the container and mechanically mix the product using a low-speed drill (300-450 rpm) to reduce air entrapment and to obtain a homogeneous mixture. Apply the layer with a short nap roller or notched trowel, ensuring a maximum thickness of 1.5 mm (60 mils). The material should be applied undiluted. Allow it to dry completely (drying time may vary depending on weather conditions, approximately 3 hours). Once dried, apply an aliphatic polyurethane resin for UV protection.

A ceramic floor can be placed on top of this coating. In this case, we recommend applying a thin coat of EVERPRIME PU at a consumption of around ~800 ft²/kit @ 4 mils thickness and lightly spreading silica sand over the wet primer.

Membrane repairs / overlaps

In cases where the membrane requires repair due to accidental damage or incorrect assembly procedures, follow these steps:

- Cut and remove the affected or damaged area.
- If recoat time has been exceeded the 24-48 hour period, sand a strip along the longitudinal overlap, approximately 20-30 cm wide.
- Clean the area by vacuuming up any debris (powder, dust, etc.). If possible, avoid using water. Use ketone-based solvents for surface cleaning.
- Apply a thin layer (100-150 g/sqm) of polyurethane resin primer (such as EVERPRIME PU).
- Lightly spread silica sand over the wet primer.
- Allow the primer to fully dry.
- Apply the membrane while following the same application procedure.
- Once dried, apply an aliphatic polyurethane resin for UV protection.

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Physical and Technical properties for use as a roof and waterproofing coating

Working life (according to the EOTA and BBA)	W3 25 years (1.2 mm minimum thickness)
External fire performance, EN 13501	Broof classification (t1) + (t4)
Fire reaction, EN 13501	Euroclass E
Climatic zone	S (hard weather)
Water vapor resistance, EN 1931	$\mu = 2,455$
Water vapor permeability, EN 1931	14 g/sqm/day
Roof slope	S1~S4, zero slope, ponding water admitted
Temperatures / user loads	P4:TH2//P3:TH4, concrete / P1:TH2,PU (Spray polyurethane foam)
Anti roots certification, EN 13948	PASS
Adherence to concrete steel polyurethane ceramic tiles	1.6 - 2.1 MPa 2.4 MPa 0.2 MPa 1.6 MPa

Physical and Technical properties for use as a membrane

Tensile strength, ISO 527-3	6-8 MPa
Abrasion resistance (taber) EN ISO 5470-1	1,994 mg (weight loss < 3.000 mg)
Diffusion-equivalent air layer thickness Diffusion resistance # EN 1062-6	S d=51 m $\mu = 82,656$
Initial elongation at break, ASTM D412	500 %
Water-vapor resistance factor transmission rate EN ISO 7783	$\mu = 1,914$ $V = 19.0$ g/sqm*day
Hardness Shore A D, ASTM D2240:2015	85 35
Falling- weight test EN ISO 6272-1	24.5 Nm (Class III)
Diffusion-equivalent air layer thickness EN ISO 7783	Sd <5m (Class I)
Carbon dioxide (CO2) permeability EN 1062-6	4.8 g/sqm*day
Crack bridging UNE-EN 1062-7 Static Dynamic	Class A5 (-10C) Class B.3.2 (23C)
Pull-off strength En 1542	2.2 MPa

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ASTM TEST RESULTS

Extensibility after heat aging ASTM C1522/C836	No cracking, PASS
Adhesion-in-peel (after immersion) ASTM C794/C836	2.7 lbf
Film thickness at 60 mils ASTM C836	61 (60 ± 5, PASS)
Crack bridging low temperature ASTM C1305	PASS
Weight loss ASTM C1250	14.9% (< 20, PASS)
Hardness Shore A ASTM D2240 /ASTM C836	82
Method for pull-off strength on concrete ASTM D4541	546 psi (3.76 MPa)
Hydrostatic pressure resistance (max/feet of water/ inches) ASTM D5385	100 psi (0.689 MPa) / 231 feet / 0.070 inches
Fire tests ASTM E108-17	Class A

***Results were performed in a laboratory setting at 23°C (73°F) and 50% RH, under controlled conditions. These values may vary depending on the application, climatology, or substrate conditions.**

General specification and restrictions

- Two-component, cold-applies liquid polyurethane that once applied, forms a continuous, seamless, highly elastic and wear-resistant, aromatic, waterproofing, and solid membrane.
- The system holds an ETA 20/0253 issued by EOTA (European Organization for Technical Assessment) under the EAD 030350-00-0402, specific approval for "Liquid Applied Roof Waterproofing based on polyurethane" working life 25 years (W3), at 1.2 mm membrane thickness (DFT), ponding water admitted.
- Green roof application certified, root resistance, according to the EN 13948 (ETA 20/0253)
- Holds CE marking on the basis of a statement made DoP Declaration of Performance conforms to the regulations UE305/2011.
- It should be applied in dry conditions, ensuring that there is no moisture present on the surface to be coated or the substrate, either at the time of application or afterward (such as pressure from the phreatic water level ('hydrostatic')). If there is moisture in the substrate at the time of application, the process should be adjusted accordingly.
- The system requires solar radiation protection (UV rays) to do not lose its physical and mechanical properties, given that it is an aromatic membrane.

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Warranty and disclaimer

Everflow® warrants that our products are free from manufacture defects in accordance with our quality control procedures. Any products proven defective are limited to the replacement of defective products or refund of the purchase price as determined by Everflow®. Please contact your local Everflow® sales representative for more information and warranty requirements.

The information and recommendations contained in this technical data sheet are based on reliable test results according to Everflow®. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. Everflow® assumes no legal responsibility for the results obtained in such cases. Everflow® assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimburse the purchase price, as set out in the purchase contract.