// COATINGS · LIQUID-APPLIED WATERPROOFING

# Petroseal Polyurethane Waterproofing Coating

Seamless, flexible liquid-applied polyurethane membrane for roofs, terraces and industrial floors

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## Description

Petroseal Polyurethane Chemical Coating is a one-component, moisture-curing polyurethane liquid waterproofing system. It cures with atmospheric humidity into a seamless, highly elastic membrane, with no laps or joints. It suits complex roof geometry, terraces, balconies and industrial floors where sheet membranes are hard to detail.

It is a waterproofing coating, not a thermal insulation product. For insulation, see PU Foam Insulation or XPS Foam Board.

## Typical uses

- Roof waterproofing, exposed (with UV-stable top coat) or under protection
- Terraces and balconies, including under tiles
- Industrial floors
- Detailing around penetrations, upstands and complex shapes

## Features & benefits

- Seamless, flexible waterproof layer with no laps
- Highly elastic and keeps its flexibility in cold and hot weather
- UV and chemical resistance when finished with a top coat
- Brush, roller or airless spray application
- Follows complex roof shapes and details
- Ready to use, with no mixing

## Product data

| PROPERTY | TEST METHOD | UNIT | TYPICAL VALUE |
|---|---|---|---|
| System type | — | — | Single coat, or multi-coat with primer |
| Chemistry | — | — | One-component moisture-curing polyurethane |
| Total consumption (waterproofing system) | — | kg/m² | 1.5 – 2.0 |
| Density at 25 °C | ISO 2811 | g/cm³ | 1.4 – 1.5 |
| Tensile strength | ASTM D412 | MPa | ≥ 1.5 |
| Elongation at break | ASTM D412 | % | ≥ 700 |
| Hardness | ASTM D2240 | Shore A | 50 – 65 |
| Watertightness | EN 12390-8 | — | No penetration |
| Service temperature | — | °C | −30 to +60 |

## Application & curing data (at 25 °C, 50% RH)

| PARAMETER | VALUE |
|---|---|
| Recommended coats | Primer + 2 coats, applied crosswise |
| Thinning | None: ready to use |
| Dry to touch | 1 – 2 hours |
| Recoat interval (min / max) | 6 hours / 48 hours |
| Rain-resistant after | 4 hours |
| Light foot traffic | 24 hours |
| Full cure | 7 days |
| Application temperature (air and substrate) | +5 °C to +35 °C |
| Maximum substrate moisture content | 5 % |

## Application guidance

- The substrate must be sound, clean, dry and free from laitance, oil, curing compounds and loose material. Let new concrete cure for at least 4 weeks. Grind or shot-blast where needed.
- Repair cracks, voids and blow holes with a compatible repair mortar. Form fillets at floor-to-wall junctions.
- Prime porous substrates (concrete, cement) with a polyurethane primer and let it dry. Non-porous substrates (bituminous membrane, tiles, metal) need a suitable adhesion primer.
- Reinforce cracks, corners, drains and junctions with polyester fleece embedded in the first coat.
- Stir well at low speed. Apply two coats crosswise by brush, roller or airless spray, to reach a total consumption of 1.5 – 2.0 kg/m².
- Apply the second coat after at least 6 hours and within 48 hours of the first.
- Check wet film thickness during application and record consumption per area.
- Where the membrane is exposed to sunlight, finish with a UV-stable polyurethane top coat.

## Limitations

- Do not apply in rain, or if rain is expected within 4 hours.
- Do not apply above 65% relative humidity or on damp substrates.
- Not interchangeable with polyurea without redesign.

## Packaging & supply

- Supplied in 6 kg and 25 kg containers
- Primer supplied separately

## Storage & shelf life

- Store sealed containers in a cool, dry place between +5 °C and +30 °C, away from humidity and sunlight.
- Shelf life: 9 months from date of production, unopened.

## Health & safety

- Refer to the product Safety Data Sheet (SDS) before use.
- Wear gloves, safety glasses and appropriate work clothing during handling and application.
- Dispose of offcuts, packaging and residues in accordance with local regulations.
- Polyurethane products contain isocyanates and solvents. Ensure ventilation and keep away from ignition sources.

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