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Polyseal PB 521

Construction Chemicals > Waterproofing Products > Polyurethane-Based

It is a single-component, liquid-applied, highly impermeable, air-cured, elastic, cold-applied polyurethane-based waterproofing material. It provides a seamless, flexible waterproofing solution with crack-bridging properties, even in cold weather.

Fields of Application

- On covered balconies, terraces, and roofs
- In all wet areas under tiles

Advantages

- Extremely easy to apply and repair
- Capable of bridging hairline cracks
- Forms a seamless coating that is resistant to wear and weather conditions
- Remains permanently elastic, preventing future cracking on applied surfaces

1 Preparation of Substrate

The surface must be clean, dry, and sound, free from any dirt that could negatively affect adhesion. Ensure that the concrete moisture content does not exceed 5%. New concrete must cure for 28 days. Loose and unstable particles should be removed from the surface using a brush and/or vacuum cleaner before application. The surface should not be washed with water; if it is, the moisture content must be reduced to below 5% before proceeding. Before applying Polyseal PB 521, the concrete surface should be cleaned with diamond-tipped grinding machines to remove any laitance, followed by vacuuming to remove dust. The product should be applied after the surface has been cleaned, any cracks and other repairs have been completed, and priming has been done. In wet areas, the floor should be thoroughly coated with Merks epoxy or polyurethane primer series and sanded.

2 Application

Polyseal PB 521 can be applied to the surface using a brush, roller, or suitable airless spray equipment. Two coats are required, with a 12-hour waiting period between coats. A third coat may be applied if desired. Final curing occurs in 7 days.

3 Consumption Rate

2 coats require 1500 - 2000 g/m^2.

4 Points to Consider

- Polyseal PB 521 should not be applied at temperatures below +5°C or above +35°C.
- Protective gloves and goggles should be worn to safeguard hands and eyes. If the material comes into contact with the eyes, rinse them thoroughly with water and seek medical attention immediately
- Ensure adequate ventilation during application, and monitor ventilation levels in enclosed spaces to ensure they are sufficient.

5 Packaging

25 kg metal bucket.

6 Storage Life

At least 12 months in sealed packaging and protected from freezing.

7 Priming

Concrete surfaces should be primed with Epoprime EB 710, EB 712, or PU Primer PB720, PB 724 before application. Depending on the air temperature, allow the primer to cure for a minimum of 4 hours and up to 12 hours.





TECHNICAL DATAS

Color	White/Gray
Density	1,37-1,42 g/cm3
Hardness	65 Shore A
Viscosity	2500-3500 cP (25°C)
Water Vapor Permeability	0.8 g/m^2 per hour
Adhesion to Concrete	>2,5 (N/mm2)
Tensile Strength	>5 (N/mm2) (+23oC)
Elongation Percentage	≥ %500
Drying Time	6-8 hours
Recoating Time	12-24 hours
Chemical Curing	7 days
Shelf Life	12 months in unopened packaging, protected from frost
Packaging	25 kg metal bucket