

BTL PU PRIMER

Low-viscosity, fast-curing polyurethane primer

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REV 05

THE PRODUCT



BTL PU PRIMER is a one-component, fast-curing polyurethane primer designed for both porous and non-porous substrates.

Its rapid curing properties make it suitable for same-day application, especially in colder climates or unpredictable weather.

The product achieves deep penetration and excellent wetting, making it ideal for highly porous concrete. It can be applied even on humid, damp, wet, or green concrete, functioning both as a primer and as a cost-effective surface sealer that enhances substrate durability.

USES

Ideal as a primer for:

- Humid, damp, wet, or green concrete.
- Highly porous concrete surfaces
- Both smooth and absorbent substrates.

BENEFITS

- ✓ One-component, ready to use
- ✓ Fast curing (same-day application)
- ✓ Low viscosity, excellent penetration
- ✓ Enhances adhesion of polyurethane membranes
- ✓ Improves substrate durability when used as a sealer
- ✓ Easy application by brush or roller

SPECIFICATIONS

Property	Standard	Unit	BTL PU PRIMER
Appearance	-	-	Low-viscosity liquid
Viscosity @25°C	ASTM D2196-86	cP	30-60
Specific weight @20°C	ASTM D1475 / DIN 53217 / ISO 2811	g/cm ³	0.95-1.05
Tensile strength at break @23°C	ASTM D412 / EN ISO 527-3	N/mm ²	30
Adhesion to cement	ASTM D1640	Mpa	>4
Water vapor permeability	EN 1504-2:2004	m	4.4
Adhesion strength by pull-off	EN 1504-2:2004	N/mm ²	4.1
Abrasion resistance	EN 1504-2:2004	-	NPD
Reaction to fire	EN 1504-2:2004	-	Euroclass F

ADDITIONAL INFORMATION

Handling and storage

BTL PU PRIMER is available in 1L, 4L and 20L drums. Store in a cool, dry, and well-ventilated area. Avoid direct sunlight and exposure to heat sources. Recommended storage temperature: 5-25 °C. Shelf life: 12 months in unopened containers under proper storage conditions.

Installation

Surface Preparation

Ensure the substrate is completely clean and free from dust, grease, oil, or any loose material. Clean using high-pressure water if possible.

Thinning (Optional)

May be thinned to reduce bubble formation and maintain consumption below 500 g/m².

Application

- Apply with brush or roller.
- Once the primer cures, apply the main waterproofing membrane.

Thinning (Optional)

Concrete: 100–500 g/m², depending on porosity.

Cleaning

Clean tools immediately using paper, then solvent. Due to strong adhesion, avoid spillage and staining. Rollers cannot be reused.

Health, Safety & Environment

Contains solvents.

Apply only in well-ventilated areas.

Keep away from heat and open flames.

In enclosed areas, use mechanical ventilation and activated-carbon masks.

CERTIFICATION

Tested according to: EN 1504-2:2004

CE Certified: CPR 2928-CPR-111 & 55

Adhesion strength tested according to: EOTA (European Organization for Technical Approval) requirements

Quality, environmental, and safety management systems: ISO 9001 / ISO 14001 / ISO 45001

BTL PU PRIMER Complies with relevant European standards for concrete surface protection.

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BTL reserves the right to modify the technical data in this specification sheet, which is based on current production without prior warning. All indicators in this specification sheet are based upon our experience and current working practices.