

POLYURETHANE PRIMER FOR POROUS SUBSTRATES

DESCRIPTION

PENEPRIMER™ PU is a single component, transparent, semi-rigid, deep penetrating, polyurethane primer. It ensures strong bonding to absorbent substrates, strong resistance to mechanical stresses, abrasion chemicals and detergents. PENEPRIMER™ PU cures by reaction with ground and air moisture.

RECOMMENDED FOR

PENEPRIMER™ PU is mainly used as a bonding agent for polyurethane waterproofing coatings and polyurethane joint-sealants on absorbent surfaces like:

- ▶ Concrete
- ▶ Concrete mortars
- ▶ Wood
- ▶ Plaster
- ▶ Concrete
- ▶ Pasterboard

PENEPRIMER™ PU can also be used as a surface stabilizer of old and brittle concrete surfaces and as a chemical resistant protection film against oils, grease, moisture, chemicals and other liquid dirt staining.

ADVANTAGES

- ▶ Easy to apply (nap roller or brush)
- ▶ Excellent anchoring to the absorbing surface
- ▶ Fast curing
- ▶ Elastic material – follows the surface texture
- ▶ Provides excellent bonding on absorbing surfaces
- ▶ Resistant to stagnating water
- ▶ Low cost

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
<i>Composition</i>	Polyurethane resin	
<i>Color</i>	Clean – yellowish	
<i>Resistance to water pressure</i>	No leak under 7 atm pressure	DIN 1048 – DIN 1928 A
<i>Flex resistance</i>	0.95 lb/ft ² (400 kg/cm ²)	
<i>Hardness (Shore A Scale)</i>	> 95	ASTM D 2240
<i>High temperature resistance</i>	194 °F (90 °C)	Inside Lab Test
<i>Low temperature resistance</i>	-40 °F (-40 °C)	
<i>Application temperature</i>	41 °F to 95 °F (5 °C to 35 °C)	
<i>Dry to coat</i>	1-3 hours	Conditions: 68 °F (20 °C), 50% RH
<i>Final curing time</i>	48 hours	

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Chemical resistance of PENEPRIMER™ PU

<i>Sulfuric acid 10%</i>	+	<i>Sea water</i>	+
<i>Hydrochloric acid 10%</i>	+	<i>Mineral oils</i>	+
<i>Nitric acid 5%</i>	+	<i>Gasoline (unleaded)</i>	+
<i>Acetic acid 5%</i>	+	<i>Ethanol 10%</i>	±
<i>Ammonia 5%</i>	+	<i>Aviation fuels (JET A1)</i>	+
<i>Sodium hydroxide 10%</i>	+	<i>Dichlormethane</i>	-
<i>Calcium hydroxide 10%</i>	+	<i>N methyl pyrrolidon (brake fluid)</i>	-

+ : Stable. - : Non stable (color change)

All data are average values obtained under laboratory conditions. Impractical use, temperature, humidity and absorption of the substrate may influence the above given values

DIRECTIONS FOR USE

Surface Preparation: The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the primer. Maximum moisture content should not exceed 5%. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed. New concrete must be cured for at least 28 days prior to application.

NOTE: Do not wash surface with water.

Application: Apply PENEPRIMER™ PU by brush or nap roller, until the surface is fully covered. After 2-3 hours and while the primer is still “tacky”, apply the polyurethane waterproofing coating, e.g. PENECOAT™ ELASTIC, or the polyurethane joint-sealant.

NOTE: In case of a vary porous or absorbent substrate, like lightweight concrete, apply two layers of the PENEPRIMER™ PU.

COVERAGE

PENEPRIMER™ PU coverage is 2.4 – 4.7 lb/ft² (100 – 200 gr/m²) in one layer.

This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Surface porosity, temperature, humidity, application method and finishing can alter this consumption.

SPECIAL CONSIDERATIONS

For best results, the temperature application and curing should be between 41 °F to 95 °F (5 °C to 35 °C). Low temperatures cause curing retardation, while high temperature speed up curing. High humidity may affect the final finish.

Careful compliance with the time margins is essential for an excellent result.

Contact PENETRON ROMANIA for further information regarding your project.

PACKAGING

PENEPRIMER™ PU is available in 2.2 lb (1 kg), 11 lb (5 kg), 22 lb (10 kg) and 37.5 lb (17 kg) containers.

STORAGE / SHELF LIFE

PENEPRIMER™ PU can be stored for 12 months in its original packing (unopened container) at 41 – 86 °F (5 – 30 °C) in a cool, dry place. Keep away from wet areas and direct sunlight.

SAFE HANDLING INFORMATION

Flammable. Avoid skin and eye contact. If contact is made, flush areas with lots of water and seek medical advice. Protective gloves, mask and goggles should be worn. For further information please refer to Material Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

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