

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

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
- ▶ Deep penetrating
- ▶ Provides high tensile and impact strength
- ▶ Heat and frost resistant
- ▶ Chemical resistant
- ▶ 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>	Brown-yellow	
<i>Resistance to water pressure</i>	No Leak (1 m water column, 24 h)	DIN 1928 A
<i>Hardness (Shore A Scale)</i>	> 95	ASTM D 2240
<i>Adhesion to concrete</i>	>1,8 N/mm ² (concrete failure)	EN 1542
<i>Service temperature</i>	-30 °C to 90 °C (-22 °F to 194 °F)	Inside Lab Test
<i>Application temperature</i>	5 °C to 35 °C (41 °F to 95 °F)	Conditions: 20 °C (68 °F), 50% RH
<i>Tack free time</i>	60 min	
<i>Dry to coat</i>	2-3 hours	
<i>Final curing time</i>	7 days	

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

POLYURETHANE PRIMER FOR POROUS SUBSTRATES

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 smoothened. 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 1-3 hours (not later than 4 hours) and while the primer is still "tacky", apply the polyurethane waterproofing coating, e.g. PENEPCOAT™ ELASTIC, or the polyurethane joint-sealant.

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

COVERAGE

PENEPRIMER™ PU coverage is 200 gr/m² (4,7 lb/ft²) 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 5 °C to 35 °C (41 °F to 95 °F). 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 HELLAS S.A. for further information regarding your project.

PACKAGING

PENEPRIMER™ PU is available in 1 kg (2,2 lb), 5 kg (11 lb), 10 kg (22 lb) and 17 kg (37,5 lb) containers.

STORAGE / SHELF LIFE

PENEPRIMER™ PU can be stored for 12 months in its original packing (unopened container) at 41 – 95 °F (5 – 35 °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 Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

WARRANTY - DISCLAIMER

PENETRON HELLAS S.A. warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON HELLAS S.A. shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application have been proven. PENETRON HELLAS S.A. makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data is given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS S.A. accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON HELLAS S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

CERTIFICATION


PENETRON HELLAS S.A.
50 Thrakomakedonon Av.,
136 79 Acharnes, Greece
22

1128-CPR-10.09.0479

DOP NO: 14.026-43-01D160922-05

EN 1504-2

PENEPRIMER PU

Surface protection product – coating:

Principles 2 Moisture Control [Method 2.2]

Principles 8 Increasing Resistivity [Method 8.2]

Linear shrinkage: NPD

Coefficient of thermal expansion: NPD

Adhesion by cross-cut test: NPD

Permeability to CO₂: NPD

Water vapour permeability: Class II: $5 \text{ m} \leq S_D \leq 50 \text{ m}$

Capillary absorption and permeability to water: $\omega < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$

Thermal compatibility: NPD

Crack bridging ability: NPD

Adhesion strength by pull-off test: $\geq 1,5 (1,0) \text{ N/mm}^2$

Reaction to fire: Class F

Slip / skid resistance: NPD

Behavior after artificial weathering: NPD

Antistatic behavior: NPD

Adhesion on wet concrete: NPD

Dangerous substances: According 5.3