

## DESCRIPTION

PENECOAT™ PU-H is a one component, semi-rigid, durable, protective aliphatic polyurethane coating, used as a top-coat for protection over the exposed waterproofing coating of PENECOAT™ ELASTIC, PENECOAT™ ELASTIC PROFESSIONAL and SiMP® COAT 25 subjected to high wear conditions and natural chalking. PENECOAT™ PU-H ensured high resistance against UV radiation, no yellowing and no chalking. It is easy to clean and presents high resistance against discoloration. Cures by reaction with ground and air moisture.

## RECOMMENDED FOR

PENECOAT™ PU-H is used as a top-coat for protection over the exposed PENECOAT™ ELASTIC, PENECOAT™ ELASTIC PROFESSIONAL and SiMP® COAT 25 on:

- ▶ Stadium stands
- ▶ Common areas
- ▶ Balconies
- ▶ Outdoor parking areas

PENECOAT™ PU-H is used as a top-coat for protection over the exposed PENECOAT™ ELASTIC, PENECOAT™ ELASTIC PROFESSIONAL and SiMP® COAT 25 on heavy pedestrian traffic surfaces.

## ADVANTAGES

- ▶ Simple application (single component, ready-to-use)
- ▶ Good resistance to abrasion
- ▶ Color stable
- ▶ Gives a glossy and easy-to-clean surface
- ▶ No surface chalking effect
- ▶ No yellowing
- ▶ Resistant to water. Can be applied on areas with puddled water
- ▶ Maintains its mechanical properties over a temperature span of -40 °C to 90 °C (-40 °F to 194 °F). No seasonal softening or hardening occurs
- ▶ Resistant to frost
- ▶ Ensures good elasticity. Follows the surface movement
- ▶ The waterproofed surface can return to service (heavy pedestrian traffic)

## TECHNICAL CHARACTERISTICS

Type	Aliphatic polyurethane	
Color	White, grey, red, yellow	
Application temperature	5 °C to 35 °C (41 °F to 95 °F)	
Re-coat time	1-4 hours	[20 °C (68 °F), 50% RH]
Light pedestrian traffic time	12 hours	[20 °C (68 °F), 50% RH]
Final Curing Time	7 days	[20 °C (68 °F), 50% RH]

**ALIPHATIC POLYURETHANE SEMI-RIGID PROTECTIVE TOP-COAT**

**Technical characteristics of PENECOAT™ PU-L**

Characteristic	Test Result	Test Method
Resistance to water pressure	No leakage	DIN EN 1928
Elongation at break	150%	ASTM D412
Tensile strength	>20 N/mm <sup>2</sup>	ASTM D412
Surface chalking after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m <sup>2</sup> )	No chalking observed. Chalking grade 0.	DIN EN ISO 4628-6
Bonding to PENECOAT™ ELASTIC	>2 N/mm <sup>2</sup>	EN 1542
UV Resistance	Excellent	
Hardness (Shore A Scale)	>90	ASTM 2240 (15")
UV accelerated ageing, in the presence of moisture	Passed – No significant changes	EOTA TR-010
Hydrolysis (5% KOH, 7 days cycle)	No significant elastomeric change	Inside Lab Test
Service temperature	-40 °C to +90 °C (-40 °F to 194 °F)	Inside Lab Test

Excellent resistance in acidic and alkali solutions (5%), detergents, oils and sea water.

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:** Surface must be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the membrane. Remove any loose materials. Maximum moisture content should not exceed 5%.

**NOTE:** Careful surface preparation is essential for optimum finish and durability. Do not wash surface with water.

**Application:** Apply crosswise the coloured protective coating PENECOAT™ PU-H over the final layer of PENECOAT™ ELASTIC, PENECOAT™ ELASTIC PROFESSIONAL and SiMP® COAT 25 using roller or airless spray. After 1-4 hours (not more than 36 hours) and while the surface is still "tacky", apply the next layer of PENECOAT™ PU-H.

During the time of polymerization of PENECOAT™ ELASTIC, PENECOAT™ ELASTIC PROFESSIONAL and SiMP® COAT 25, you can dry-shake quartz aggregate sand 0,4-0,8 mm (QUARTZ SAND MIX), to increase hardness and durability of the layer. The next day, remove the excess amount of quartz aggregates, using a broom, and apply the two layers of the protective coating PENECOAT™ PU-H.

**COVERAGE**

200 to 300 gr/m<sup>2</sup> (0,04 to 0,06 lb/ft<sup>2</sup>) per layer.  
Apply on two layers.

**SPECIAL CONSIDERATIONS**

For the best results, the temperature during application and cure should be between 10 °C and 35 °C (50 °F and 95 °F). Low temperatures may cause retardation in curing, while higher temperatures may accelerate the process. High humidity may affect the final finish.

Hands and tools should be cleaned before polymerization with the solvent PENECLEANER™ A PLUS.

In case of stagnating water, PENECOAT™ PU-L and its system should be cleaned on regular basis, to avoid biological and microbial attack.

Contact PENETRON ROMANIA for specific instructions, regarding your project.

**PACKAGING**

PENECOAT™ PU-H is available in 20 kg (44 lb), 10 kg (22 lb), 5 kg (11 lb) and 1kg (2,2 lb) containers.

**STORAGE / SHELF LIFE**

When stored in a dry and cool place in their original, unopened containers, shelf life is 9 months. Protect the material against moisture and direct sunlight. Storage temperature should be between 5 °C – 35 °C (41 °F – 95 °F).

**SAFE HANDLING INFORMATION**

Flammable. Wear appropriate eye, skin and breathing protection, when using this product. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. For further information please refer to Safety Data Sheet. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers.

KEEP OUT OF REACH OF CHILDREN.

**CERTIFICATION**

PENECOAT™ PU-L is tested and certified by the German state testing institute for construction materials, MPA-Braunschweig, as a protective coating of PENECOAT™ ELASTIC.



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EN 13813

PENECOAT PU-H

Synthetic resin screed system for internal use:

EN 13813 SR-B2,0-AR0,5-IR10

Reaction to fire: E<sub>fl</sub> \*

Release of corrosive substances: SR

Water permeability: NPD

Wear resistance: AR0,5

Bond strength: B2,0

Impact resistance: IR10

Impact sound insulation: NPD

Sound insulation: NPD

Heat insulation: NPD

Chemical resistance: NPD

**WARRANTY - DISCLAIMER**

BEST IMPORT PRODUCTS PENETRON warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to BEST IMPORT PRODUCTS PENETRON shall be limited to replacement of the material proven to be defective, and BEST IMPORT PRODUCTS PENETRON shall in no case be liable otherwise or for incidental or consequential damage. BEST IMPORT PRODUCTS PENETRON MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith. BEST IMPORT PRODUCTS PENETRON 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.