PRODUCT DATA SHEET

PENECOAT™ SL

Version, Penetron Hellas 17.08.2026

TWO COMPONENT POLYURETHANE SELF LEVELING FLOOR COATING

DESCRIPTION

PENECOAT™ SL is a two component, semi-rigid, polyurethane based industrial floor coating, free of solvents. It provides high mechanical strength, high abrasion and chemical resistance. Provides elasticity, mechanical strength and is abrasion resistant and alkali and chemical resistant. Cures by reaction (cross linking) of the two components.

RECOMMENDED FOR

PENECOAT™ SL is mainly used in medium duty floor coating, as a semi-rigid self leveling coating, such as:

- Car parking areas
- Car repair garages
- Warehouses
- Interior sports floors
- Offices, stores
- Exhibition areas
- Cold storage rooms
- Storage rooms

PENECOAT™ SL is also suitable for coating of metal surfaces in marine like: interior and exterior ship decks, cabins, bathrooms, engine rooms, etc. It is a specialized product used for filling shallow holes on floors, which will be coated by a thin-layer polyurethane floor coating.

ADVANTAGES

- Odourless, solvent free
- Semi-rigid
- Provides high tensile and impact strength
- Provides enough elasticity to withstand movements of the surface
- Provides strong resistance to acidic solutions, common chemicals and detergents
- Self-leveling
- Resistant to bacteria and fungus
- Low cost
- Gives a glossy and easy-to-clean surface

PENETRON® ADVANCED WATERPROOFING & PROTECTION SYSTEMS

ISO 9001 ISO 14001 ISO 45001

TWO COMPONENT POLYURETHANE SELF LEVELING FLOOR COATING

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Composition	Polyurethane resin and Hardener	
Color	Grey	
Mixing ratio	A : B = 100 : 30 (by weight)	
Hardness (Shore A Scale)	75 ± 5	ASTM D 2240
Impact Resistance (measured in CE systems)	> 6Nm	EN 13813
Adhesion to concrete	> 2 N/mm^2 (concrete failure)	ASTM D 7234 / EN 1542
Solid content	100%	INHOUSE LAB TEST
Flash point	> 200 ºC (392 ºF)	INHOUSE LAB TEST
Application temperature	5 ºC to 35 ºC (41 ºF to 95 ºF)	Conditions: 20 ºC (68 ºF), 50% RH
Pot Life	30 minutes	
Traffic timeLight Trafficking	24 hours	
Final curing time	7 days	

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 grinded with a grinding machine. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old 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.

NOTE: Careful surface preparation is essential for optimum finish and durability**.** Do not wash surface with water. Use only stone grinding machine (Stone No 12) or diamond grinding machine.

Priming: Pour the content of PENEPOX™ SF PRIMER B into the PENEPOX™ SF PRIMER A container and mix thoroughly for at least 3-4 mins, until the mixture becomes fully homogeneous. The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail, with a drilling mixer and a mixing wand. Apply the PENEPOX™ SF PRIMER A+B mixture by roller or brush, until the surface to be primed, is covered. Disperse 0,5-1 Kg/m^2 (0,1-0,2 lb/ft^2) of dry quartz sand mix onto the primer, before it gets dry, and then let it dry. After 12 – but not later than 18 hours – apply PENECOAT™ SL.

Expansion joint sealing: Prime the expansion joints with the appropriate primer (U-SEAL 110 for porous substrates). Apply a polyethylene backing rod, of the appropriate section (PENETRON® BACKING ROD) inside the joint and fill the joint with the appropriate sealer, U-SEAL or SiMP®SEAL

Mixing: After 12 hours, but not later than 24 hours, pour the content of PENECOAT™ SL B into the PENECOAT™ SL A container and mix thoroughly for at least 3-5 mins, until the mixture becomes fully homogeneous. You may add suitable graded quartz aggregates (QUARTZ SAND MIX 0,06-0,18 mm, or similar) in the mix, up to 50% by weight. The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail, with a drilling mixer and a mixing wand.

Mixing ratios: Mixing ratio of PENECOAT™ SL is A : B = 100 : 30 (by mass).

Application: Pour PENECOAT™ SL A+B mixture onto the surface and lay it out by a 1-2 mm (1/64''-5/64'') teeth trowel as a scratch coat, until all the surface is covered. Backroll with a spike roller, until encapsulated air can escape. Ensure that backrolling is done efficiently.

After 12 hours, but not later than 24 hours, apply another layer of PENECOAT™ SL A+B, by suitable sized 1 mm (1/64'') teeth trowel and use same procedure, to help encapsulated air escape, while the coating is still wet. Backroll with a spike roller, until encapsulated air can escape. Ensure that backrolling is done efficiently. Use the roller thoroughly, as the second layer will ensure excellent smoothness on the surface.

NOTE: The mix content must be poured immediately on the surface, otherwise it may increase in temperature, start curing rapidly and may prevent you apply it properly. When applying PENECOAT™ SL, please ensure you are within the curing time margins.

Finishing (Paint): After 12 hours, but not later than 24 hours, apply a layer of coloured PENEFLOOR™ PU-COAT, by roller or airless spray. In case the surface is exposed to sunlight, one or two layers of PENECOAT™ PU-H, instead of PENEFLOOR™ PU-COAT, are highly recommended. Apply a second layer of PENEFLOOR™ PU-COAT, if desired.

Coverage: 1,5 - 3 kg/m^2 (0,31 – 0,61 lb/ft^2) in total.

SPECIAL CONSIDERATIONS

For the best results, the temperature application and curing should be between 5 ºC to 35 ºC (41 ºF to 95 ºF). Low temperatures cause curing retardation, while high temperatures 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

PENECOAT™ SL is available in 9+3 kg (13,2+4,4 lb) and 3+1 kg (6,6+2,2 lb) containers.

STORAGE / SHELF LIFE

PENECOAT™ SL can be stored for 9 months in its original packing (unopened container) at 5 ºC – 35 ºC (41 ºF – 95 ºF) in a cool, dry place. Keep away from wet areas and direct sunlight.

SAFE HANDLING INFORMATION

Flammable. No smoking. 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.

CERTIFICATION

PENECOAT™ SF ELASTIC is certified by the current European and German regulations for use on surfaces with permanent contact with potable water. PENECOAT™ SF ELASTIC is certified by the General Chemical State Laboratory, based on the German Standard Kunststoffe im Lebensmittelverkehr, par. 1.3.2.5.2), the Greek Standard (Codex Aliimentarius, articles. 21,21a,24,26,28) and the current European regulations. All test were carried out based on ELOT EN 1484, prEN 12873-1, prEN 14395-1 Standards.

CE

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DOP NO: 14.002-00-06D070722-05
EN 13813
PENECOAT SL
Synthetic resin screed system for internal use:
EN 13813 SR-B2,0-AR0,5-IR6
(Used with PENEPOX SF PRIMER and
PENEFLOOR PU COAT)
EN 13813 SR-B2,0-AR0,5-IR6
Reaction to fire: E_{fl} *
Release of corrosive substances: SR
Water permeability: NPD
Wear resistance: AR0,5
Bond strength: B2,0
Impact resistance: IR6
Impact sound insulation: NPD
Sound insulation: NPD
Heat insulation: NPD
Chemical resistance: NPD

WARRANTY - DISCLAIMER

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