PRODUCT DATA SHEET

PENEPOX™ SF PRIMER

Version, Penetron Hellas 19.01.2023

TWO COMPONENT SOLVENT FREE EPOXY PRIMER

DESCRIPTION

PENEPOX™ SF PRIMER is a liquid form, rigid, two component, self-leveling, epoxy solvent-free primer with high impact and abrasion strength and very good resistance against acidic and basic solutions, common chemicals and detergents. PENEPOX™ SF PRIMER cures by reaction (cross linking) of the two components.

RECOMMENDED FOR

PENEPOX™ SF PRIMER is mainly used as a primer for polyurethane coatings, before the application of PENECOAT™ SF ELASTIC and epoxy systems and paints PENEPOX™.

- Concrete
- Terrazzo
- Troweled industrial floor
- Quarry tiles
- Power floated concrete
- Asphalt
- Wood.
- Metal, etc.
- Resin for the production of durable resin mortars of coloured quartz sand on decorative floors
- Stabilizing loose surface pieces of internal spaces

ADVANTAGES

- Solvent free
- Easy to apply
- Excellent anchoring to the surface
- Provides high tensile and impact strength
- Heat and frost resistant
- Provides strong resistance to chemicals and detergents
- Provides strong vapor barrier properties

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Composition	Pigmented Epoxy resin + Hardener	
Color	Clean	
Mixing ratio	A : B = 100 : 50 (by mass)	
Hardness (Shore D Scale)	40	ASTM D 2240
Solids content	100%	Inside Lab Test
Adhesion to Concrete	> 3,7 N/mm^2 (concrete failure)	EN 1542
Application temperature	12 ^{o}C to 35 ^{o}C (53 ^{o}F to 95 ^{o}F)	Conditions: 20 ^{o}C (68 ^{o}F), 50% RH
Workability time	40 min	
Tack free time	3-5 hours	
Light trafficking	12-24 hours	
Repaint time	12-18 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 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. The surface needs to be grinded with a stone- or a diamond-grinding machine. Do not wash surface with water.

Mixing: 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.

Application: Apply the PENEPOX™ SF PRIMER A+B mixture by roller or brush, until the surface to be primed, is covered. If the area is to be coated with polyurethane sealant or coating, 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 the next layer of polyurethane coating PENECOAT™ SF ELASTIC or epoxy coating PENEPOX™ CS.

NOTE: Keeping the timeline is very important to ensure the best bonding between layers.

Coverage: As a primer, 250 gr/m^2 (0,05 lb/ft^2), in one layer.

SPECIAL CONSIDERATIONS

For the best results, the ambient and ground temperature during application and curing should be between 12 ºC to 35 ºC (53 ºF to 95 ºF). 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

PENEPOX™ SF PRIMER A+B is available in 4+2 kg (8,8+4,4 lb) and 8+4 kg (17,6+8,8 lb) containers.

STORAGE / SHELF LIFE

PENEPOX™ SF PRIMER can be stored for 12 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

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

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CERTIFICATION

CE

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1128-CPR-10.09.0479
DOP NO: 14.026-44-04D160922-05
EN 1504-2
PENEPOX SF PRIMER
Surface protection product – coating:
Protection against ingress [Method 1.3]
(Used with PENECOAT SF ELASTIC)
Linear shrinkage: NPD
Coefficient of thermal expansion: NPD
Adhesion by cross-cut test: NPD
Permeability to CO_2: S_D > 50m
Water vapour permeability: Class II: 5 m < S_D < 5m
Capillary absorption and permeability to water: ω < 0,1 kg/m^2.h^{0,5}
Thermal compatibility: NPD
Resistance to thermal shock: NPD
Chemical resistance: NPD
Crack bridging ability: NPD
Adhesion strength by pull-off test: ≥ 1,5 (1,0) 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

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