

DESCRIPTION

PENECOAT™ TOP CLEAR is a single component, clear, semi-rigid, stamp concrete polish coating of methacrylate resin. PENECOAT™ TOP CLEAR ensures high abrasion strength and very good resistance against light traffic, while it presents excellent resistance to sunlight, no yellowish effect or chalking. It gives a wet look on the surface, while it increases its gloss. PENECOAT™ TOP CLEAR ensures resistance to water permeability, stabilizes and protects surfaces from erosion due to UV radiation, dirt, smog, industrial fume gases, wastes and acid rain. It is easy to clean and provides strong resistance against discoloration of vertical and horizontal surfaces. PENECOAT™ TOP CLEAR cures by reaction with ground and air moisture.

RECOMMENDED FOR

PENECOAT™ TOP CLEAR is used as a protective coating and surface sealant against water permeability on decorative surfaces:

- ▶ Concrete
- ▶ Coatings
- ▶ Stone
- ▶ Mosaic
- ▶ Stamp or colored floorings
- ▶ Decorative components
- ▶ Karystos stones
- ▶ Porous natural rocks

ADVANTAGES

- ▶ Easy application (single component, ready-to-use, by roller or brush)
- ▶ No discoloration by sunlight (no yellowish effect)
- ▶ Abrasion resistant
- ▶ Resistant to water. Can be applied on areas with puddled water
- ▶ Maintains its mechanical properties over a temperature span of -30 °C to 90 °C (-22 °F to 194 °F). No seasonal softening or hardening occurs
- ▶ Excellent surface protection against liquid stains
- ▶ Does not show the chalking effect of aromatic polyurethane
- ▶ Resistant to bacteria and fungus
- ▶ Ensures good elasticity. Follows the surface movement
- ▶ The waterproofed surface can be walked on (pedestrian traffic)

TECHNICAL CHARACTERISTICS

Characteristics	Test Result	Test Method
Composition	Methacrylate resin	
Color	Clear	
Resistance to water pressure	No leakage	DIN EN 1928
Elongation at break	>30%	DIN EN ISO 527
Tensile strength	> 2 N/mm ²	DIN EN ISO 527
Surface chalking after 2000h of accelerated ageing (DIN EN ISO 4892-3, 400 MJ/m ²)	No chalking observed Chalking grade 0	DIN EN ISO 4628-6
Adhesion to concrete	> 1,5 N/mm ² (concrete failure)	ASTM D 903
Hardness (Scale Shore D)	20	ASTM D 2240
UV accelerated ageing, in the presence of moisture	Passed – No significant changes	EOTA TR-010
Service temperature	-20 °C to 90 °C (-4 °F to 194 °F)	Conditions: 20 °C (68 °F), 50% RH
Application temperature	5 °C to 35 °C (41 °F to 95 °F)	
Tack free time	1-4 hours	
Light trafficking	12 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. Remove all loosing materials. New concrete structures need to dry for at least 28 days. Maximum moisture content should not exceed 5%. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. 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.

Application: Apply the first layer of PENECOAT™ TOP CLEAR, on the prepared surface, with a fine quality roller or brush. Apply crosswise the second layer of PENECOAT™ TOP CLEAR after 2-4 hours (but not later than 6 hours), while the surface is "tacky". The first layer gives a wet effect, while the second layer increases its gloss.

NOTE: Do not apply PENECOAT™ TOP CLEAR on surfaces coated with silanes, siloxanes, silicones, or other

hydrophobic materials, due to expected low adhesion. We recommend a test application, if quality and surface conditions are not well specified.

Coverage: 200 to 250 gr/m² (0,04 to 0,05 lb/ft²) per layer. Apply in one or two layers.

SPECIAL CONSIDERATIONS

For the 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 temperatures speed up curing. High humidity may affect the final finish.

PENECOAT™ TOP CLEAR is slippery, when wet. We recommend dry-shake well graded quartz aggregate (QUARTZ SAND MIX or similar) on fresh material, to create a non-slip surface.

Compliance with provided timelines is very important to ensure good adhesion between layers.

Contact PENETRON HELLAS S.A. for further information, regarding your project.

PACKAGING

PENECOAT™ TOP CLEAR is available in 17 kg (37,5 lb), 10 kg (22 lb), 4 kg (9 lb) and containers.

STORAGE / SHELF LIFE

PENECOAT™ TOP CLEAR can be stored for 9 months in its original packing (unopened container) at 5 – 30 °C (41 – 86 °F) in a cool, dry place. Keep away from wet areas and direct sunlight

SAFE HANDLING INFORMATION

Good ventilation or appropriate respiratory equipment is advised. 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

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