

**ALIPHATIC FLEXIBLE PROTECTIVE POOL COATING**

**DESCRIPTION**

PENECOAT™ POOL is a one or two component (with the addition of UV elasticizer), coloured, flexible, hard, aliphatic polyurethane based, protective pool coating. PENECOAT™ POOL ensures high impact and abrasion strength and very good resistance against chemical solutions used in pools, common and domestic detergents. It cures by reaction with ground and air moisture.

**RECOMMENDED FOR**

PENECOAT™ POOL is used as a protective coating in:

- ▶ Pools
- ▶ Artificial ponds
- ▶ Related applications

**ADVANTAGES**

- ▶ Easy application (single component, ready-to-use)
- ▶ Provides strong resistance to pool chemical solutions
- ▶ Abrasion resistant
- ▶ No chalking
- ▶ No discoloration by sunlight
- ▶ Decorative material
- ▶ Resistant to puddle water
- ▶ Low cost

**TECHNICAL CHARACTERISTICS**

Characteristics	Test Result	Test Method
<i>Composition</i>	Aliphatic polyurethane	
<i>Color</i>	Light blue, blue, beige/sand, whitish	
<i>Resistance to water pressure</i>	No leakage	DIN 1928, Test A
<i>Flexural strength</i>	400 kg/cm <sup>2</sup>	Inside Lab Test
<i>Adhesion to concrete</i>	> 1,5 N/mm <sup>2</sup>	ASTM D 903
<i>Hardness (Scale Shore A)</i>	> 95	ASTM D 2240
<i>Application temperature</i>	41 °F to 95 °F (5 °C to 35 °C)	Conditions: 68 °F (20 °C), 50% RH
<i>Treading time</i>	1-2 hours	
<i>Curing time</i>	24 hours	
<i>Final curing time</i>	7 days	

**Chemical resistance of PENECOAT™ POOL**

<i>Sodium hypochlorite 5%</i>	+	<i>Sea water</i>	+
<i>Hydrochloric acid 5%</i>	+	<i>Skin sunscreens</i>	-

PENECOAT™ coated on cement board, immersed for 30 days, in laboratory conditions:  
+ : Stable. - : Non stable (color change).

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

## SINGLE COMPONENT ALIPHATIC FLEXIBLE PROTECTIVE POOL COATING

## 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.

In case of PENECOAT™ POOL application on old pool coating (eg. epoxy coatings) or surfaces with low mechanical strength, grinding of the surface is required, prior to application, with a grinding machine, to remove considerable thickness, to remove polishing and roughen the surface. To enhance adhesion and stabilization, we recommend adding the water-based epoxy primer PENEPOX™ W. Dilution of PENEPOX™ W with water at a ratio of 10 to 20% (by weight), is highly recommended, at an indicative consumption between 180-200 gr/m<sup>2</sup>. The application of the polyurethane-based paint PENECOAT™ POOL is made within 12 to 24 hours (lower temperatures period), while at normal temperatures is recommended within 2-3 hours.

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

**Application:** Apply the first layer of PENECOAT™ POOL, on the prepared surface, with a fine quality roller. Apply the second layer of PENECOAT™ POOL after 1-3 hours. If required, apply a third layer of PENECOAT™ POOL, after 1-3 hours.

**Enhance UV flexibility system:** We recommend in most applications the addition, by mixing, 10% by weight of PENECOAT™ POOL (1 kg PENECOAT™ CLEAR per 10 kg PENECOAT™ POOL), the aliphatic plasticiser, PENECOAT™ CLEAR. That way, PENECOAT™ POOL presents enhanced bonding properties and chemical resistance, excellent UV resistance and, finally, it turns from a flexible to an elastic material, able to bridge capillary cracks up to approx. 1/64 " (0.5 mm). Mixing of the material is as follows: Mix PENECOAT™ POOL thoroughly for approx. 2-3 minutes, using a mixing drill at low speed, and then add the quantity of PENECOAT™ CLEAR, mixing for additionally 2-3 minutes, until the mixture is homogenous.

**NOTE:** It is recommended to apply all layers of PENECOAT™ POOL coating on the same day, to achieve the best bonding between layers.

**Coverage:** 0.03 to 0.04 lb/ft<sup>2</sup> (150 to 200 gr/m<sup>2</sup>) per layer. Apply on two to three layers.

## SPECIAL CONSIDERATIONS

For the best results, the temperature application and curing should be between 41 °F to 95 °F (5 °C to 35 °C). Low temperatures cause curing retardation, while high temperature speed up curing. High humidity may affect the final finish.

Vapors of PENECOAT™ POOL are heavier than air and they tend to concentrate on the bottom of the pool. We recommend high attention to good ventilation and safety measures at work.

Tools should be cleaned, before polymerization with the solvent PENE CLEANER™ PLUS.

Contact PENETRON ROMANIA for further information, regarding your project.

## PACKAGING

PENECOAT™ POOL is available in 44 lb (20 kg), 22 lb (10 kg) and 11 lb (5 kg) containers.

## STORAGE / SHELF LIFE

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

## SAFE HANDLING INFORMATION

Flammable. Do not smoke. 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 Material Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

## WARRANTY – DISCLAIMER

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