MARIPOOL® EP

Epoxy-based Protective Swimming Pool Coating

TECHNICAL DATA SHEET
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Product Description

MARIPOOL® EP is a coloured, chemical resistant, abrasion resistant, epoxy based, thin-layer protective pool coating. Resistant to usual pool chemicals.

Product Information

- Two-component, solvent-based, epoxy coating

Packaging

- Sets of 7,5+2,5 & 3+1kg metal pails

Color

- White, Light Blue / Sea Blue**

Shelf Life

- 12 months from date of production

Storage Conditions

- Pails should be stored in dry and cool rooms. Protect the material against moisture and direct sunlight. Storage temperature: 5°-35°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Advantages

- Simple application (roller or airless spray)
- Resistant to abrasion
- Resistant to pool chemicals
- No water absorption, when applied
- Gives a satin and easy-to-clean surface
- Resistant to frost

Uses

MARIPOOL® EP is used on concrete, cementitious mortar, cement screeds, etc. on exterior or interior surfaces.
MARIPOOL® EP is used for protection in:

- Swimming Pools
- Fountains
- Ponds
- Water Tanks
- Water Channels, etc

Consumption

- 0.150 kg/m^2 per layer, applied in 3 layers.

This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and finish required can alter consumption.

Certifications

EN1504-2: Surface protection for concrete. (0.450kg/m^2)

Technical Data*

PROPERTY	RESULTS	TEST METHOD
Composition	Pigmented synthetic polymer. Solvent based.	
Hardness (SHORE A Scale)	>80	ASTM D 2240
Mixing ratio	7,5A : 2.5B	
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-40ºC to +90ºC	Inhouse Lab
Water Vapor Permeability (0.45kg/m²)	1.73 gr/m^2/day	ISO 7783
Carbon Dioxide Permeability (0.45kg/m²)	0.38 gr/m^2/day	EN 1062-6
Water Permeability (0.45kg/m²)	0.01 kg/m^2/h$^{0.5}$	EN 1062-3
Adhesion to concrete	2.9 N/mm^2 (concrete surface failure)	EN 1542
Tack Free Time	4-6 hours	Conditions: 20ºC, 50% RH
Recoat ability.	24 hours	Conditions: 20ºC, 50% RH
Final Curing time	7 days	Conditions: 20ºC, 50% RH
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

EPD **verified**

Application

Surface Preparation
Careful surface preparation is essential for optimum finish and durability.
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.

WARNING: Do not wash surface with water!
WARNING: Do not apply coating directly on highly elastic cementitious waterproofing membranes. Do not apply coating on polymer based membranes or old coatings, only on low flexibility cementitious screeds, cement mortar, concrete, etc.

Repair of cracks:
Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks with suitable putty. The next day smoothen the putty surface with sandpaper or a mechanical grinder.

COATING
Stir well before using.
For best results, the temperature during application and cure should be between 5ºC and 35 ºC. Low temperatures retard cure while high temperature speeds up curing. High humidity may affect the final finish.
Apply the first layer of the colored MARIPOOL® EP coating.
After 18 hours (not later than 24 hours) apply the second layer of MARIPOOL® EP coating.

ATTENTION: Protect material against tanning agents and sunblock oils, as discolouration could occur. Due to the increasing UV radiation, the constant and direct exposure of epoxy coating to the sun contributes more intensively to chalking along the time. The overdose of chlorine swimming pool additives speeds up the caulking effect.

Safety measures

MARIPOOL® EP contains solvents. See information supplied by the manufacturer. Flammable. Use only at places with adequate ventilation. Please study the Safety Data Sheet. **PROFESSIONAL USE ONLY**

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