MARIPUR® 7100

Polyurethane Floor Coating

TECHNICAL DATA SHEET
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Product Description

MARIPUR® 7100 is a colored, highly durable, heavy duty polyurethane floor coating, mainly used on concrete floors, on interior surfaces.
Specially designed for use as a thin-layer floor coating, providing high mechanical strength.

Product Information

- One-component, ground & air moisture-cured, cold applied and cold curing highly durable aromatic polyurethane

Packaging

- 1/5/10/20 kg metal pails

Color

- Silver Grey, silk Grey (ex-light grey)***
- Other RAL colors supplied on request

Shelf Life

- 9 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)
- Decorative
- Resistant to constant, heavy abrasion.
- Heat and frost resistant
- When applied does not absorb liquids or dirt
- Stops the creation of dust
- Gives a glossy and easy-to-clean surface
- Chemical resistant
- Maintains its mechanical properties over a temperature span of -20°C to +90°C

Uses

- Car repair garages
- Car parking areas
- Warehouses
- Storage rooms
- Factories
- Animal breading farms
- Cold storage rooms (Freezers), etc.

Consumption

- 0,300-0,400 kg/m² in two 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

EN13813 SR-B2.0-AR0.5-IR6: Screed material and floor screed: 0.3 Kg/m²
(Certification in a system with MARIPOX® 2510 (0.25kg/m²) and MARICOAT® 2000 (2kg/m²))

Chemical properties**

Potassium hydroxide 5%	**+**	**Sodium hydroxide 5%**	**+**
Ammonia 5%	**+**	**Hydrochloric acid 5%**	**+**
Citric acid 5%	**+**	**Sea water**	**+**
Domestic detergents (diluted)	**+**	**Dichlormethane**	**-**
Diesel fuel	**+**	**N-methyl pyrrolidone (brake fluid)**	**-**
+ Stable, - Not stable, ± Stable for a short period.			

Technical Data*

PROPERTY	RESULTS	TEST METHOD
Composition	Pigmented Polyurethane pre-polymer. Solvent based	
Elongation at Break	>50 %	DIN 53504
Tensile Strength	>3 N/mm²	DIN 53504
Adhesion to Concrete	>2 N/mm²	EN 1542
Hardness (SHORE D Scale)	20	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Application Temperature	5ºC to 35ºC	
Tack Free Time	2-3 hours	Conditions: 20ºC, 50% RH
Light Trafficking	12-24 hours	Conditions: 20ºC, 50% RH
Final Curing time	7 days	Conditions: 20ºC, 50% RH

EPD verified

Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.
The surface needs to be grinded with a stone- or a diamond-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%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. 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 use a metal-ball blasting machine to grind the surface, because the heavy metal-ball impacts destroy the cohesion of the concrete surface and lower its stability.

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 a sandpaper or a mechanical grinder

Absorbent surfaces

Prime absorbent surfaces, like concrete, cement screed and wood with MARIPUR® 7000 primer, for the first layer by using a roller, brush or a spray gun.
After 2-3 hours (not later than 4 hours) and while the primer is still a bit tacky, apply the first layer, of coloured MARIPUR® 7100 coating. Stir well before using.
Once again allow 3-4 hours for the coating to cure (not more then 4 hours) and apply the second layer of the coloured MARIPUR® 7100.

Non-absorbent surfaces

Prime non-absorbent surfaces like metal, terrazzo, mosaic, specific types of power-floated concrete and ceramic tiles with MARIPOX® 2510 Primer, for the first layer by using a roller, or a brush.
After 12 hours (not later than 18 hours) apply the first layer, of the coloured MARIPUR® 7100 coating. Stir well before using.
Once again allow 3-4 hours for the coating to cure (not more then 4 hours) and apply the second layer of the coloured MARIPUR® 7100.
For best results, the temperature during application and cure should be between 5ºC and 35ºC. Low temperature retards cure while high temperature speeds up curing. High humidity may affect the final finish.

WARNING: MARIPUR® 7100 and/or MARIPUR® SYSTEM is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface.

Anti-slip Finish

In order to achieve an anti-slip effect, we need to evenly sprinkle corundum (or silica sand) on the first layer of MARIPUR® 7100 while still wet. When the layer is dry, we brush off any excess aggregate and continue with the application of the second layer of MARIPUR® 7100. If necessary, apply a third layer of MARIPUR® 7100, always following the inter-coat time intervals (2-4h).

Safety measures

MARIPUR® 7100 contains isocyanates. See information supplied by the manufacturer. Flammable. Make sure personal protection (gloves, mask, goggles) are used and ventilation is adequate. Please study the Safety Data Sheet. PROFESSIONAL USE ONLY

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