MARICOAT® 2000

Polyurethane
self-levelling
Floor Coating
Solvent-free

TECHNICAL DATA SHEET
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Product Description

MARICOAT® 2000 is a self-levelling, hard-elastic, polyurethane coating with high impact resistance, abrasion strength and very good resistance to acidic and basic solutions, mainly used in medium duty floor coating.
Cures by reaction (cross linking) of the two components.

Product Information

- Two-component polyurethane + hardener, solvent-free

Packaging

- 9+3 / 3+1 kg metal pails

Color

- Grey **

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: 5^0-35^0C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Advantages

- Hard-elastic
- Provides high tensile and impact strength
- Provides enough elasticity to withstand constant abrasion due to working conditions
- Provides strong resistance to chemicals
- Resistant to bacteria and fungus
- Stops the creation of dust
- Gives a glossy and easy-to-clean surface

Uses

- Offices
- Show rooms
- Interior Sports floors
- Warehouses
- Cold Storage rooms, etc.

Consumption

- Self-leveling coating: 2,0 – 4,0 kg/m², depending on the coating thickness required.

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: Screed material and floor screed: Part of systems
MARIPOX 2510(0,250 kg/m²) + MARICOAT 2000 (2 kg/m²) + MARIPUR 7100 (0,150 kg/m²)
MARIPOX 2510(0,250 kg/m²) + MARICOAT 2000 (2 kg/m²) + MARIPUR 7200 (0,200 kg/m²)

Technical Data*

PROPERTY	RESULTS	TEST METHOD
Mixing Ratio	A:B = 100:30 by weight	
Hardness (Shore A Scale)	75 ± 5	ASTM D 2240
Impact Resistance (measured in CE systems)	> 6 Nm	EN13813
Adhesion to Concrete	> 2 N/mm²	ASTM D7234/EN 1542
Solids Content	100%	CALCULATED
Flash point	> 200°C	INHOUSE LAB
Temperature strength	110°C (Fully cured)	IN HOUSE LAB
Application Temperature	5°C to 30°C	Conditions: 20°C, 50% RH
Pot Life	30 minutes	Conditions: 20°C, 50% RH
Light Trafficking	24 hours	Conditions: 20°C, 50% RH
Final Curing time	7 days	Conditions: 20°C, 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! 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

Priming

Prime all surfaces with MARIPOX® 2510 Primer, by using a roller, or a brush. Sprinkle oven dry silica sand (corn size 0,3-0,5mm) evenly onto the wet primer. After 12 hours (not later than 18 hours), brush off any excessive aggregate and apply the MARICOAT® 2000.
Make sure on pinholes or blowholes are present in the primed surface.

Mixing

Stir Component A well before using. MARICOAT® 2000 Component A and Component B should be mixed by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min.
ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Self-leveling coating

Poor MARICOAT® 2000 A+B mixture onto the surface and lay it out by suitable sized toothed trowel, until all the surface is covered. Back roll with spike roller, until encapsulated air can escape. Ensure that back rolling is done efficiently. Alternatively heat the still wet coating with an industrial heat blower, to help encapsulated air escape. Hold blower at 10-15cm distance from the surface.

The next day apply over MARICOAT® 2000 surface with one or two layers of coloured MARIPUR® 7100/ 7200 or other.

For best results, the temperature during application and cure should be between 5°C and 30°C. Low temperature retards cure while high temperature speeds up curing. High humidity may affect the final finish.

RECOMMENDATION: The thickness of the entire coating should not be less than 2mm.

ATTENTION: Please ensure to back roll or heat the wet coating very thoroughly, to prevent encapsulated air create bubbles and pinholes on the final surface of the coating.
ATTENTION: Please ensure consumption within the Pot Life.
WARNING: MARICOAT® 2000 and/or MARICOAT® 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. Please contact our technical Dept. for more information

Safety measures

MARICOAT® 2000 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet. PROFESSIONAL USE ONLY

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