

MARIPUR® 7300

Aliphatic
Polyurethane
Transparent
Glossy Sealer
UV stable

TECHNICAL DATA SHEET
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Product Description

MARIPUR® 7300 is a premium, transparent, glossy, semi-rigid, polyurethane sealer coating with high impact and abrasion strength and very good UV stability, used for as a transparent coating for natural stone sealing or as a transparent concrete sealer.

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Product Information

- One component, air & ground moisture, aliphatic polyurethane sealer

Packaging

- 1/4/10/17 kg metal pails

Color

- Transparent

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)
- Resistant to constant, heavy abrasion and wear conditions
- Non-yellowing, UV stable
- Gives a glossy and easy-to-clean surface
- No chalking effect
- Resistant to stagnating water and frost
- Maintains its mechanical properties over a temperature span of -20°C to +90°C
- The waterproofed surface can be walked on (public pedestrian traffic)
- Resistant to bacteria and fungus
- Stops the creation of dust
- Decorate the surface and improves the working environment

■ Uses

MARIPUR®7300 is mainly used in floor coating applications, either as a transparent, UV stable, solvent based coating natural stones or as a transparent concrete sealer. Due to its properties is widely used for decorative flooring applications on

- Natural Stones
- Concrete
- Power Floated Concrete
- Stamped Concrete, etc.

■ Consumption

- 0,200-0,400 kg/m² in two layers

This coverage is based on practical application 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 0.2kg/m²

| PROPERTY | PERFORMANCE |
|--|--|
| Water vapor permeability: | Class I: sD < 5 m |
| Capillary absorption and permeability to water: | $\omega < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |
| Adhesion strength by pull-off tests: | $\geq 1,5 \text{ (1,0) 1) N/mm}^2$ |
| Abrasion Resistance | 220mg weight loss |
| Impact Resistance | Class I $\geq 4\text{Nm}$ |
| Resistance to thermal shock (70°C) | $\geq 1,5 \text{ (1,0) N/mm}^2$ |



Technical Data*

| PROPERTY | RESULTS | TEST METHOD |
|--|---|--------------------------|
| Resistance to Water Pressure | No Leak | DIN EN 1928 |
| Elongation at break | >50% | DIN EN ISO 527 |
| Tensile strength | >5 N/mm ² | DIN EN ISO 527 |
| Surface chalking after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m²) | No chalking observed. Chalking grade 0 | DIN EN ISO 4628-6 |
| Adhesion to concrete | >2 N/mm ² (concrete failure) | EN 1542 |
| Hardness (Shore D Scale) | 30 | ASTM D 2240 (15") |
| UV accelerated ageing, in the presence of moisture | Passed - No significant changes | EOTA TR-010 |
| Hydrolysis (5% KOH, 7days cycle) | No significant elastomeric change | Inhouse Lab |
| Service Temperature | -20°C to +90°C | Inhouse Lab |
| Application Temperature | 5°C to 35°C | Conditions: 20°C, 50% RH |
| Tack Free Time | 1-4 hours | Conditions: 20°C, 50% RH |
| Light Trafficking | 12 hours | Conditions: 20°C, 50% RH |
| Final Curing time | 7 days | Conditions: 20°C, 50% RH |



EPD verified

■ Application

Application as Transparent Natural Stone Sealer

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%. Possible surface irregularities need to be smoothed. Any loose surface pieces and dust need to be thoroughly removed.

WARNING: Do not apply MARIPUR® 7300 on surfaces with ascending nitric salts in the joints, without suitable pre-treatment. Do not apply MARIPUR® 7300 on surfaces treated in the past with active silane, siloxane, silicon or other water-repellents, because of expected poor adhesion.

We recommend an adhesion test, if circumstances and surface history are not clear. On marble and granite please perform an adhesion test, to ensure that adhesion is proper.

Natural Stone Sealer:

Apply MARIPUR® 7300 onto the previously prepared natural stone surface by roller in one or two layers. Make sure to apply thin layers. Do not allow ponding.

Application as Concrete Sealer

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 smoothed. 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.

Repair of cracks:

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

Concrete Sealing:

Make sure that the concrete surface to be coated, was previously prepared (grinded and cleaned) and is according to specifications.

Apply MARIPUR® 7300 by roller. After 2-4 hours (not later than 6 hours) apply the second layer.

Make sure to apply thin layers. Do not let coating pond.

ATTENTION: For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperatures speed up curing. High humidity may affect the final finish.

RECOMMENDATION: Change rollers every hour, especially in high temperature conditions (>25°C) as MARIPUR® 7300 tends to cure on the roller and then create uneven steaks during application.

WARNING: MARIPUR® 7300 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

MARIPUR® 7300 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data Sheet. **PROFESSIONAL USE ONLY**

Our technical advice for use, whether verbal or written, is given in good faith and reflect the current level of knowledge and experience with our products. When using our products, a detailed object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We may guarantee only that our products are compliant with their technical specification; correct application of our products therefore falls entirely within your scope of liability and Users are responsible, in any case, for complying with local legislation and for obtaining any required approvals or authorizations, when necessary, either for their purchase and/or for their use. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our technical department. The new edition of the technical data sheet supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practice.

* All values represent typical values and are not part of the product specification.

MARIS POLYMERS S.M.S.A.

Industrial Area of Inofita • 320 11 Inofita • Greece Tel: +30 22620 32918-9
marispolymers@saint-gobain.com • www.marispolymers.com