

# MARIPUR<sup>®</sup> 7700

## Aliphatic Polyurethane Transparent Glossy Coating

TECHNICAL DATA SHEER  
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### Product Description

MARIPUR<sup>®</sup> 7700 is a premium, transparent, glossy, semi-rigid, polyurethane coating with high impact & abrasion strength and excellent UV stability. Mainly used in floor coating applications, either as a transparent, solvent based coating over polyurethane or epoxy coatings or as a transparent concrete sealer.

Cures by reaction air & ground humidity (moisture cure).

#### Product Information

- One component, solvent based, aliphatic polyurethane

#### Packaging

- 5/17 kg metal pails

#### Colour

- Transparent

#### Shelf Life

- 9 months from date of production

#### Storage Conditions

- MARIPUR<sup>®</sup> 7700 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
- Non-yellowing, UV stable
- Gives a glossy and easy-to-clean surface
- No chalking effect
- Resistant to 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

## ■ Main uses

- Residential
- Offices
- Retail Stores and Show Rooms
- Night Clubs and Restaurants
- Warehouses and Production Areas
- Hospitals and Healthcare Facilities, etc.

## ■ Consumption

- 0.150-0.200 kg/m<sup>2</sup> in one layer
- Concrete dust sealer: 0,300-0,400 kg/m<sup>2</sup> 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. (0.3kg/m<sup>2</sup>)**



**Technical data\***

PROPERTY	RESULTS	TEST METHOD
Resistance to Water Pressure	No Leak	DIN EN 1928
Elongation at break	>30%	DIN EN ISO 527
Tensile strength	>5 N/mm <sup>2</sup>	DIN EN ISO 527
Surface chalking after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m <sup>2</sup> )	No chalking observed. Chalking grade 0	DIN EN ISO 4628-6
Adhesion to concrete	>2 N/mm <sup>2</sup> (concrete failure)	EN 1542
Adhesion to MARICOAT® 2000	>1,5 N/mm <sup>2</sup>	EN 1542
Permeability to CO <sub>2</sub> (measured in CE system)	1.4g/m <sup>2</sup> d	EN 1062-6
Water vapour permeability (measured in CE system)	7.4g/m <sup>2</sup> d	EN ISO 7783
Capillary absorption and permeability to water (measured in CE system)	0.01 kg/m <sup>2</sup> .h <sup>0.5</sup>	EN 1062-3
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

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### **Application as Transparent Topcoat**

#### **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.

The maximum time between the application of the Polyurethane or Epoxy Floor Coating to be transparently top-coated is 18-36 hours.

**WARNING: Do not wash surface with water!**

#### **Top-Coating**

Apply MARIPUR® 7700 onto the previously applied Polyurethane or Epoxy Floor Coating surface by roller in one layer.

ATTENTION: Be sure to apply thin layers. Do not let coating pond.

ATTENTION: Change rollers every hour, especially in high temperature conditions (>25°C) as MARIPUR® 7700 tends to cure and then creates uneven steaks during application.

### **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. The next day smoothen the putty surface with a sandpaper or a mechanical grinder.

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#### **Concrete Sealing**

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

Apply MARIPUR® 7700 by roller. After 2-4 hours (not later than 6 hours) apply the second layer.

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

**WARNING: MARIPUR® 7700 is slippery when wet. In order to avoid slipperiness, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our technical Dept. for more information.**

## ■ Safety measures

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MARIPUR® 7700 contains isocyanates. See information supplied by the manufacturer. Make sure personal protection (gloves, mask, goggles) are used and ventilation is adequate. 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.

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