

# MARITRANS® SEALER

Transparent,  
Liquid- Applied  
Waterproofing  
Polyurethane  
Membrane

TECHNICAL DATA SHEET  
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## Product Description

MARITRANS® SEALER is a transparent, liquid-applied, two-component, durable, hard, aliphatic polyurethane membrane, used for long-lasting waterproofing. The technologically advanced, transparent MARITRANS® SEALER coating material is UV-stable, not yellowing, not chalking, resistant to alkalis on the surface, and it retains its transparency and hardness even after ageing.

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### Product Information

- Two-component, durable, hard, aliphatic polyurethane membrane

### Packaging

- 5+5 / 0,5+0,5 kg metal pails

### Color

- Transparent

### Shelf Life

- 9 months from date of production

### Storage Conditions

- Protect the containers against moisture and sunlight. Storage temperature: 5<sup>o</sup>-35<sup>o</sup>C. The product should remain in its original, unopened containers, bearing the manufacturer's name, product designation, batch number and precaution labels.

### Advantages

- Fast curing
- UV-stable
- Non-yellowing
- Non-chalking
- When applied, it polymerises, forming a uniform, hard, waterproofing membrane without joints
- Is not hydrolysed and can be applied in places with standing water
- Does not soften in summer or harden in winter, as it retains its mechanical properties at temperatures from -30<sup>o</sup>C to +90<sup>o</sup>C
- Offers exceptional adhesion over the entire surface
- The surface remains accessible and resistant to stress
- In case of mechanical damage, the membrane can be easily repaired locally in a manner of minutes

## ■ Uses

Waterproofing of:

- Ceramic surfaces
- Glass surfaces and glass bricks
- Pools
- Clear plastics (e.g., polyacrylates, polycarbonates)

Bonding resin for outdoor and indoor quartz sand flooring.

It may also be a transparent, protective coating on floors exposed to heavy chemical leaks, such as acidic solutions, oils, mineral oils, etc.

## ■ Consumption

- 0.600- 0.800 kg/m<sup>2</sup> applied in two or three layers.

## ■ Certifications

Sulphuric acid 5%	+	Sea water	+
Hydrochloric acid 5%	+	Water	+
Nitric acid 5%	+	Petrol (unleaded)	+
Calcium hydroxide 5%	+	Ethanol 5%	±
Ammonia 5%	+	Aircraft fuel (JET A1)	+
Sodium hydroxide 5%	+	Dichloromethane	-
Salt solution 20%	+	Mineral oils / Oils	+

## Technical Data \*

PROPERTY	RESULTS	TEST METHOD
Composition	Aliphatic polyurethane + hardener	
Mixing ratio	A:B = 100:100 by weight	
Resistance to water pressure	No leaks	DIN 1928, Test A DIN 1048
Hardness (Shore D Scale)	30-40	ASTM D 2240
Solid residue	98.5%	Calculated
Resistance to bending	100kg/cm <sup>2</sup>	In-house laboratory testing
Adhesion to concrete	>2 N/mm <sup>2</sup> (concrete failure)	ASTM D 903
Application temperature	5°C to 30°C	Conditions: 20°C, 50% RH
Light Pedestrian Traffic Time	1-3 hours	Conditions: 20°C, 50% RH
Curing time	24 hours	Conditions: 20°C, 50% RH
Final curing time	7 days	Conditions: 20°C, 50% RH
Chemical resistance	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	

## ■ Application

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### Surface Preparation

Careful surface preparation is important for optimum finish and durability. The surface needs to be clean, dry and free of any loose parts or contamination, which may harmfully affect adhesion. Remove all loose materials. New concrete structures need to dry for at least 28 days. Maximum moisture content of the surface should not exceed 5%. Oils, plant organisms and dust need to be removed by grinding machine. Any surface irregularities need to be smoothed. Any loose pieces or dust from grinding must be removed by vacuuming.

**ATTENTION:** Do not wash surface with water before the application.

**ATTENTION:** For concrete surface grinding, only use mosaic floor grinders [Hard Rocks (no 12)] or diamond grinders

### Priming

On non-porous mineral surfaces, e.g., vitreous ceramic tiles, etc., apply a layer of MARITRANS® TILE PRIMER at a consumption of 100gr/m<sup>2</sup>, and 30-60 min later you can apply the first layer of the MARITRANS® SEALER. Please refer to the MARITRANS® TILE PRIMER technical data sheet for the application instructions.

### Component mixing

Stir the contents of the MARITRANS® SEALER Component A container separately for 2-3 minutes.

Then, empty the contents of the MARITRANS® SEALER Component B container in the MARITRANS® SEALER Component A container and mix well for at least 3-4 minutes, with the help of a low-speed stirrer (150-200rpm), until the mixture is completely homogeneous.

Let the mixture rest for 2-3 min, to allow any trapped air to escape.

**ATTENTION:** Component mixing must be very thorough, especially near the walls and bottom of the container.

### Coating

On the prepared surface which will be sealed with the MARITRANS® SEALER (e.g., epoxy/polyurethane flooring, concrete, polyurethane binder, etc.) apply the first layer of MARITRANS® SEALER using a good-quality, short-hair roller (moher), using no more than 250-300gr/m<sup>2</sup>.

After 2-3 hours (not later than 5 hours) apply the second layer of MARITRANS® SEALER.

If necessary, after 2-3 hours (not later than 5 hours) apply the third layer of MARITRANS® SEALER.

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

**ATTENTION:** The individual layers of the MARITRANS® SEALER must be applied on the same day, to achieve the best possible bonding results.

## ■ Safety measures

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Please refer to the instructions of the manufacturer. Carefully review 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.

**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