

MARITRANS® SEALER

TRANSPARENT LIQUID-APPLIED POLYURETHANE SEALER SOLVENT FREE

Product Description

The MARITRANS® SEALER is a transparent, durable, semi-rigid, two component aliphatic polyurethane coating used for long term sealing. The high technology, transparent coating MARITRANS® SEALER is not affected by ultraviolet radiation (UV), is non-yellowing, not creating a chalking surface, is not affected by alkalis, and even after aging it remains transparent and hard

The MARITRANS® SEALER is cured by the chemical reaction of the two components.

Advantages

- Fast Curing
- Thick layers possible in one layer
- Not affected by ultraviolet radiation (UV)
- Non yellowing
- Non chalking effect
- When applied it forms a semi-rigid seamless, transparent membrane without joints
- Can be applied in places where stagnant water is present.
- Does not soften in the summer and does not harden in the winter, it maintains its mechanical properties at temperatures from -30o C to + 90o C.
- Provides excellent full surface adhesion
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.

USES

The MARITRANS® SEALER is used as transparent coating / sealer in applications such as:

- Floors high mechanical requirements, over epoxy or polyurethane coatings to produce 3D floors
- Transparent sealing of various surfaces and supports requiring moderate mechanical requirements.
- Transparent sealing of polyurethane or epoxy Sandcarpet floor/wall finishes (resin mortar)

Consumption

0,3 – 0,5 kg/m² applied in two or three layers if applied as a thin layer coating.

1,1 kg/m² per mm thickness, applied in one layer if applied as a self-levelling transparent coating.

Colors

To MARITRANS® SEALER is supplied transparent.

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane high solids	
Mixing Ratio	A : B = 100:100 by weight	
Resistance to water pressure	No leak	DIN 1928, Test A
Hardness (Scale Shore D)	30-40	ASTM D 2240
Solid Content	98,5%	Calculated
Adhesion to concrete	>2 N/mm ² (destruction of concrete)	ASTM D 903
Application temperature	5 ^o C to 30 ^o C	Conditions: 20 ^o C, 50% RH
Light Pedestrian Traffic Time	1-3 hours	
Innitial Curing Time	24 hours	
Final Curing Time	7 hours	

CONSTRUCTION



Chemical Resistance			
Sulfuric Acid 5%	+	Sea water	+
Hydrochloric Acid 5%	+	Water	+
Calcium Hydroxide 5%	+	Ethanol 5 %	±
Sodium Hydroxide 5%	+	Dichloromethane	-
Diesel	±	Oils	+

Application

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 membrane. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed. Possible surface irregularities need to be smoothed. Any loose pieces and dust need to be thoroughly removed. Do not wash surface with water!

CAUTION: Do not wash surface with water before applying.

Mixing of the Two Components

Stir the contents of the container MARITRANS® SEALER Part A only for 1-2 minutes.

Then, empty the contents of the container MARITRANS® SEALER Part B into the MARITRANS® SEALER Part A and mix thoroughly for at least 2-3 minutes until the mixture is completely homogeneous, with the help of mechanical mixed at low speed (150- 200rpm).

Leave the mixture for 2-3 minutes to rest, so the trapped air is allowed to escape.

WARNING: The mixing of the two components must be done thoroughly, especially on the sides and on the bottom of the container.

Application

Over the prepared surface which will be sealed with the MARITRANS® SEALER, (eg: epoxy / polyurethane flooring, concrete, polyurethane mortar (Binder), etc.), apply the first coat MARITRANS® SEALER using a short pile roller of good quality (moher) in layers which does not exceed 250-300gr / m2.

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

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

For self-levelling application procedures, empty enough mixed MARITRANS® SEALER on the prepared surface and spread out with teeth trowel of suitable size. Use a spike roller to remove air bubbles.

For best results, the temperature during application and curing of applying the material should be between 5C and 30C. Low temperatures retard cure while high temperature speed. High humidity may affect the final finish.

CAUTION: The individual layers of MARITRANS® SEALER, should be placed on the same day, to achieve the maximum adhesion between them.

Packaging and Storage

The containers should be stored in dry and cool rooms for up to 9 months from date of production. Protect the material from moisture and sunlight. Storage temperature: 5-30C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Security measures

See information supplied by the manufacturer. Please study the Safety Data sheet.

Our technical advice for use, whether verbal, written or in tests, 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 are liable only for our products being free from faults; correct application of our products therefore falls entirely within your scope of liability and responsibility. We will, of course, provide products of consistent quality within the scope of our General Conditions of Sale and Delivery. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. Values in this technical data sheet are given as examples and may not be regarded as specifications. For product specifications contact our R+D 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.

CONSTRUCTION

