

MARITRANS® FINISH

TECHNICAL DATA SHEET

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Transparent, polyurethane finishing coating Satin matte finish

Product description

MARITRANS® FINISH is a satin-matte, transparent, semi-rigid, one component, aliphatic polyurethane coating, used for matt finishing over MARITRANS® polyurethane coatings.

The MARITRANS® FINISH is UV-stable, non-yellowing, abrasion resistant, alkali and chemical resistant. It gives the surface a satin-matte look.

The MARITRANS® FINISH is using a unique curing system (moisture triggered), and unlike other similar systems it does not react with moisture (moisture-cured) and does not form bubbles.

Uses

The MARITRANS® FINISH is used as a satin-matte, transparent finishing coating in combination with the MARITRANS® for:

- Transparent waterproofing of Balconies and Terraces
- Transparent waterproofing of Ceramic surfaces
- Transparent waterproofing of Glass
- Transparent waterproofing of Glass-Brick walls
- Transparent waterproofing and protection of Natural Stones
- Transparent waterproofing of Transparent Plastics (e.g. Polyacrylate, Polycarbonate)
- Transparent waterproofing and protection of Wood

Advantages

- Simple application (roller).
- UV-stable
- Non-yellowing
- Abrasion resistant.
- Gives the surface a satin-matte finish.
- Resistant to water.
- Maintains its mechanical properties over a temperature span of -40°C to +90°C.
- Resistant to frost.
- Over 10 years of positive feedback worldwide.

Consumption

0,1 kg/m² in one layer.

This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

Colors

The MARITRANS® FINISH is supplied transparent, satin-matte

Technical Data *

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane high-solids pre-polymer	
Elongation at Break	>200%	DIN EN ISO 527
Tensile Strength	>15 N/mm ²	DIN EN ISO 527
Adhesion to MARITRANS® coating	>1,5 N/mm ² (see application instructions)	ASTM D 903
Surface chalking after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	No chalking observed. Chalking grade 0	DIN EN ISO 4628-6
Hardness (SHORE D Scale)	25	ASTM D 2240
Water vapor permeability	>8 gr/m ² ·24hours	EN ISO 12572
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-40°C to +90°C	Inhouse Lab
Tack Free Time	4-6 hours	Conditions: 20°C, 50% RH
Light Pedestrian Traffic Time	24 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and 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. Activate (prime) and degrease glass and glazed surfaces with the MARISEAL® TILE-PRIMER. Possible surface irregularities need to be smoothed. Any loose pieces and dust need to be thoroughly removed. Do not wash surface with water!

ATTENTION: Surfaces with trapped moisture (e.g. trapped moisture under balconies tiles) must be left to dry completely (max. 5% moisture), before the application of the MARITRANS® coating.

WARNING: Do not apply the MARITRANS® on ceramic surfaces with ascending nitric salts in the joints, without suitable pre-treatment. Do not apply the MARITRANS® 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.

Repair of cracks and joints:

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results. Clean concrete cracks, hairline cracks, expansion joints and control joints of dust, residue or other contamination. Prime locally with the MARISEAL® 710 Primer and allow 2-3 hours to dry. Fill all prepared cracks and joints with MARIFLEX® PU 30 sealant. Allow to cure.

Priming (Activation of surface)

See MARITRANS® TILE PRIMER Technical Data Sheet

Transparent waterproofing membrane

See MARITRANS® Technical Data Sheet.

Matte Finishing

Stir well before application by using a mechanical mixer to ensure that all settled materials have been homogenized and incorporated into the coating. Then after use a staff to mix the coating every 10min, to avoid further settlement.

Apply the MARITRANS® FINISH over the cured MARITRANS® polyurethane coating by short hair roller, until all surface is covered.

ATTENTION: Apply the MARITRANS® FINISH over the MARITRANS® / MARITRANS® MD coating, 18-24 hours after the application of the MARITRANS® / MARITRANS® MD.

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

WARNING: The MARITRANS® coating 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 R+D Dept. for more details.

Packaging

MARITRANS® FINISH is supplied in 17 kg, 10 kg and 5 kg pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARITRANS® FINISH contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet. **PROFESSIONAL USE ONLY.**

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.