

MARITRANS® FINISH

Transparent,
Polyurethane
Finishing Coating
Satin Matte

TECHNICAL DATA SHEET
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Product Description

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

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.

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Product Information

- One-component, solvent based, moisture-cured cold applied and cold curing aliphatic polyurethane

Packaging

- 1/4/10 kg metal pails

Color

- Transparent, satin-matte

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)
- UV-stable
- Non-yellowing
- Abrasion resistant
- Gives the surface a satin-matte finish
- Resistant to stagnating water
- Maintains its mechanical properties over a temperature span of -40°C to +90°C.
- Resistant to frost

■ Uses

MARITRANS® FINISH is in combination with MARITRANS® for:

Waterproofing of:

- Balconies and Terraces
- Ceramic surfaces
- Glass and Glass-Bricks
- Transparent Plastics (e.g Polyacrylate Polycarbonate)
- Wood
- Protection of Natural Stones

■ Consumption

- 0,100 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.

■ Certifications



EN1504-2: Surface protection for concrete. Certification of MARITRANS system: 0.08kg MARITRANS Tile Primer, 0.8kg MARITRANS, 0.3kg MARITRANS FINISH



Technical Data *

PROPERTY	RESULTS	TEST METHOD
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)	EN 1542
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
Permeability to CO ₂ (measured in CE system)	0.4g/m ² d	EN 1062-6
Water vapour permeability (measured in CE system)	2.7g/m ² d	EN ISO 7783
Capillary absorption and permeability to water (measured in CE system)	0.009 kg/m ² .h ^{0.5}	EN 1062-3
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	Conditions: 20°C, 50% RH
Final Curing time	7 days	Conditions: 20°C, 50% RH
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, seawater and oils.	



EPD verified

■ 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 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 MARITRANS® coating.

WARNING: Do not apply MARITRANS® on ceramic surfaces with ascending nitric salts in the joints, without suitable pre-treatment. Do not apply 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 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 on 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, during application, mix the coating with a staff every 10min, to avoid further settlement. Apply MARITRANS® FINISH over cured MARITRANS® polyurethane coating by short hair roller, until all surface is covered.

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

WARNING: 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 technical Dept. for more information.

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speeds up curing.

■ 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 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