

COLTECH® TRANSELAST MATT

TECHNICAL DATA SHEET
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Transparent Polyurethane Waterproofing / Protective Coating Satin Matt

Product description

The COLTECH TRANS MATT is a transparent, satin-matt, hard-elastic, one component, aliphatic polyurethane, high-solids coating, used over the COLTECH TRANS for achieving a satin-matte effect for long-lasting waterproofing and protection of wooden surfaces in Marine applications.

This high-technology coating is UV-stable, non-yellowing, weather stable, alkali and chemical resistant and even after aging it remains transparent and elastic.

The COLTECH TRANS coating system protects and waterproofs wooden surfaces against humidity, water penetration, salt corrosion, frost, smog and acid rain, as when cured it creates a permanent elastic, thick layer coating / membrane which does not blister, crack or decay as other transparent marine varnishes do.

The COLTECH TRANS MATT 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 or surface defects.

Uses

The COLTECH TRANS MATT is widely used for creating of a Satin Matt effect over the glossy COLTECH TRANS for protection / waterproofing of Interior and Exterior wooden surfaces in Marine applications as:

- Wooden Ship Decks
- Wooden Railings
- Wooden Walls
- Wooden Parts, etc.

The COLTECH TRANS MATT is also suitable for waterproofing and protection of concrete, wood, glass, ceramics, FRP and other surfaces in Marine and Construction applications

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
Tear resistance	>40 N/mm	DIN ISO 34, Method B
Elongation at break after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	>200%	DIN EN ISO 527
Tensile strength after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	>15 N/mm ²	DIN EN ISO 527
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)	25-30	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
Adhesion to COLTECH TRANS	>3,0 N/mm ²	ASTM D 903 (ELCOMETER)
Service Temperature	-30 ^o C to +90 ^o C	Conditions: 20 ^o C, 50% RH
Tack Free Time	4-6 hours	
Light Trafficking Time	24 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against acidic and alkali solutions (5%), detergents, water, seawater, oils and lubricants.	

Finish

Advantages

- Simple application (roller or airless spray).
- Satin Matt.
- UV-stable.
- Non-yellowing.
- Provides permanent elasticity with very high tear resistance, thus does not break over time.
- Maintains its properties over a temperature span of -30°C to +90°C.
- Resistant to water and seawater.
- Resistant to frost.
- The waterproofed/protected surface can be walked on.
- Over 10 years of positive feedback worldwide.

Consumption

0,100 - 0,150 kg/m² in one layer

Colors

The COLTECH TRANS MATT is supplied transparent, satin matt.

Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The COLTECH TRANS surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the satin matt top-coat to the COLTECH TRANS coating/membrane. Maximum moisture content should not exceed 5%.

WARNING: Do not wash surface with water!

Application of Satin Matt coating on COLTECH TRANS waterproofing/protection membrane

Stir COLTECH TRANS MATT well before using until all settled solids are evenly distributed in the liquid coating and a uniform color is achieved. Repeat stirring every 5-10minutes.

Apply the COLTECH TRANS MATT coating onto the cured COLTECH TRANS surface by high quality, short hair roller.

Do not apply a second layer.

ATTENTION: Repeat stirring of the COLTECH TRANS MATT in the pail, every 5-10 minutes during application to avoid optical defects after curing.

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

WARNING: The COLTECH TRANS system 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 R+D Dept. for more details.

Packaging

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^o-30^oC. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

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.