

MARISEAL® 400

Polyurethane Top-Coat, UV-stable Light pedestrian traffic

Product description

MARISEAL® 400 is a pigmented, color- and UV-stable, highly permanent elastic, cold applied and cold curing, one component aliphatic polyurethane coating, used as a top-coat for protection over exposed, polyurethane waterproofing coatings. Cures by reaction with ground and air moisture.

Protects very efficiently, especially if a dark final color is desired.

Uses

- Waterproofing of Rooftops
- Protection of Polyurethane Foam Insulation
- Waterproofing and protection of Concrete constructions like Bridges, etc.
- Waterproofing of Metal Surfaces.

Used over the MARISEAL® 250 and 260 on surfaces, with light pedestrian traffic (e.g. Rooftops) that require a glossy, color-stable and non-chalking finish.

Advantages

- Simple application (roller or airless spray).
- Color stable.
- Gives a glossy and easy-to-clean surface.
- Does not show the chalking effect of aromatic polyurethane coatings.
- Resistant to water.
- Resistant to frost.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- The waterproofed surface can be walked on (light pedestrian trafficking).

Consumption

120-250 gr/m² in one or two layers.

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

Colors

The MARISEAL® 400 is supplied in white, grey, red and green. Other RAL colors supplied on request.

Technical data

PROPERTY	RESULTS	TEST METHOD
Composition	Pigmented Aliphatic Polyurethane pre-polymer. Solvent based	
Resistance to Water Pressure	No Leak	DIN EN 1928
Elongation at break	289%	DIN EN ISO 527
Tensile strength	3,72 N/mm ²	DIN EN ISO 527
Elongation at break after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	372 %	DIN EN ISO 527
Tensile strength after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	2,68 N/mm ²	DIN EN ISO 527
Gloss retention after 2000h of accelerated aging (DIN EN ISO 4892-3, 400 MJ/m ²)	Good	DIN 67530
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
Adhesion to the MARISEAL® 250	>2 N/mm ²	ASTM D 903
Application Temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Tack Free Time	1-3 hours	
Light Pedestrian Traffic Time	12 hours	
Final Curing time	7 days	

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 of the surface should not exceed 5%.

WARNING: Do not wash surface with water!

Top-Coat

Stir well before using. Apply the MARISEAL[®] 400 by roller or airless spray in one or two layers.

Allow 3-4 hours (not more than 6 hours) to cure, between the two layers.

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 MARISEAL[®] 400 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

MARISEAL[®] 400 is supplied in 20 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^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

MARISEAL[®] 400 contains isocyanates. 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.