

MARISEAL® DETAIL

Liquid-applied Polyurethane Waterproofing Membrane For Complex Roof Details. Fiber-reinforced

Product description

MARISEAL® DETAIL is a liquid-applied, **thixotropic**, permanent elastic, **fiber-reinforced**, cold applied and cold curing, polyurethane membrane used for long-lasting waterproofing.

Advantages

- Simple application (brush or roller)
- It forms seamless membrane without joints or leak possibilities
- Resistant to stagnating water and rain
- Maintains its mechanical properties over a temperature span of -30°C to +80°C
- Resistant to frost
- Provides water vapor permeability
- Full surface adherence without any additional anchoring
- Even if the membrane gets damaged, it can be easily repaired locally within minutes

PRODUCT INFORMATION

Chemical Base One-component, air & ground moisture-cured, cold applied and cold curing thixotropic aromatic fiber-reinforced polyurethane

Packaging 1/6 kg metal pails

Colour Grey, Black, White

Shelf Life 9 months from date of production

Main Uses

Mainly used to create waterproof seals on difficult and complex roofing details such as:

- Wall-floor connections
- Flashings and 90° angles
- Light domes
- Roof lights
- Chimneys
- Pipes,
- Gutters, etc.

Consumption

2,0 – 3,0 kg/m² depending on application.

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.

In case of MARISEAL® FABRIC reinforcement, consumption may alter.

Surfaces

MARISEAL® DETAIL is mainly used to create waterproof seals between different construction materials as:

Bitumen felts / PVC membranes / Concrete / Mortar / Cement screed / Various Metals / Wood, etc.



Technical data *

PROPERTY	RESULTS	TEST METHOD
Elongation at Break	250 %	ASTM D 412
Tensile Strength	> 2 N/mm ²	ASTM D 412
Water Vapor Permeability	10 gr/m ² per 24 hours	ISO 9932:91
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Carbon Dioxide Permeability (1.2kg/m ²)	2.5 gr/m ² /day	EN 1062-6
Water Permeability (1.2kg/m ²)	0.025 kg/m ² /h ^{0.5}	EN 1062-3
Adhesion to concrete	> 2,5 N/mm ²	EN 1542
Hardness (Shore A Scale)	65-70	ASTM D 2240
Application Temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Rain Stability Time	3-4 hours	
Light Pedestrian Traffic	12-18 hours	
Final Curing time	7 days	
Chemical Properties	Good resistance against acidic and alcaic solutions (5%), detergents, seawater and oils.	

Certifications

EAD 030350-00-0402 : European Technical Approval: ETA09/0241



Working life expected:	W3 (4.1kg/m²)	25 Years
Climate Zone:	M and S	All
Imposed loads:	P1 to P4	Very High (maximum load)
Roof slopes:	S1 to S4	<5° to >30°
Lowest surface temperature:	TL4	-30°C
Highest surface temperature:	TH4	+90°C
Reaction to fire:	Class E	EN 13501-1
Resistance to wind loads	≥ 50 kPa	EU Norm

Working life expected:	W2 (2.4kg/m²)	10 Years
Climate Zone:	M and S	All
Imposed loads:	P1 to P3	High
Roof slopes:	S1 to S4	<5° to >30°
Lowest surface temperature:	TL3	-20°C
Highest surface temperature:	TH4	+90°C
Reaction to fire:	Class E	EN 13501-1
Resistance to wind loads	≥ 50 kPa	EU Norm

EN1504-2 : Surface protection product for concrete (2.5kg/m²)

Application

Surface Preparation / Priming

Prime very absorbent surfaces like concrete, cement screed or wood with MARISEAL® 710 or with MARISEAL® AQUA PRIMER. Prime non-absorbent surfaces like metal, ceramic tiles and old coatings, with MARISEAL® AQUA PRIMER or with MARISEAL 750. Prime surfaces like bitumen - asphalt felts & acrylic coatings, with MARISEAL® 730 or with MARISEAL® AQUA PRIMER.



Prime surfaces like TPO, PP and EPDM, with MARISEAL® TPO PRIMER.
For surfaces like PVC, activate with MARISOLV® 9010.
Allow the primer to cure according to its TDS.

Detail Waterproofing membrane

Stir MARISEAL® DETAIL slowly and well with wooden staff before using. Do not use a mechanical drill.
Apply the MARISEAL® DETAIL onto the prepared and/or primed surface by a 10cm wide brush, until all surface is covered.
After 18-36hours apply a second layer. Reinforce always with the MARISEAL® Fabric.
In order to do that, apply on the still wet MARISEAL® DETAIL a correct cut piece of MARISEAL® Fabric, press it to soak, and saturate again with enough MARISEAL® DETAIL. For detailed application instructions with the MARISEAL® Fabric, contact our R+D department.

ATTENTION: Do not apply MARISEAL® DETAIL when the temperature is below +5°C during the application and 4 hours afterwards, on surfaces with Temperature below +5°C, on frozen surfaces, during rain or mist, on wet MARISEAL® DETAIL Primer and on surfaces with ascending humidity. Low temperatures retard cure while high temperature speeds up curing.

Finishing

If a colour stable and chalking-free surface is desired, apply one or two layers of MARISEAL® 400 Top-Coat over MARISEAL® DETAIL. The application of the MARISEAL® 400 Top-Coat, is especially required, if a dark final colour, is desired. (e.g. red, grey, green)
Alternatively, suitable aggregate can be broadcasted over the last (second) layer of MARISEAL DETAIL while still wet, until full saturation, to protect against UV radiation and enhance optically the result.
For the several finishing application procedures, please consult their technical instructions or contact our R+D Department.

WARNING: MARISEAL® DETAIL and/or MARISEAL® 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 information.

Storage Conditions MARISEAL® DETAIL 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.

Safety measures

MARISEAL® DETAIL 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 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. In sample preparation the MARISEAL KATALYSATOR was used as an acceleration additive. The applied coating might yellow and/or fade upon UV exposure.

