

# MARISEAL® 600

## Liquid-applied, Two Component Polyurethane Waterproofing Membrane

### Product Description

MARISEAL® 600 is a fast-curing, liquid-applied, highly permanent elastic, cold applied and cold curing, bitumen extended, two component polyurethane membrane used for long-lasting waterproofing. Solvent based.

The MARISEAL® 600 is based on pure elastomeric hydrophobic polyurethane resins, and is extended with chemically polymerized virgin bitumen, which result in excellent mechanical, chemical, thermal and natural element resistance properties. Cures by reaction (cross linking) of the two components.

### Uses

- Waterproofing of Foundations
- Waterproofing of Retaining Walls
- Under-tile Waterproofing in Bathrooms, Terraces, Roofs, etc
- Waterproofing of Roofs with inverted insulation
- Waterproofing of Asphalt- and Bitumen-felts, EDPM membranes, etc.

### Packaging and Colors

MARISEAL® 600 A+B is supplied in black in 20+20 and 5+5 lt metal pails. Storage Temperature: 5-30°C

### Consumption

1,2 – 2,0 l/m<sup>2</sup> applied in two or three layers. 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.

### Advantages

- Simple application and fast curing.
- When applied forms seamless membrane without joints.
- Resistant to water and frost.
- Thick, bubble-free membrane possible.
- Provides excellent crack-bridging properties.
- Good water vapor blocking properties.
- Provides excellent thermal resistance, it never turns soft.
- Maintains its mechanical properties over a temperature span of -30°C to +90°C.
- Provides excellent adhesion to almost any type of surface.
- The waterproofed surface can be walked on.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- Does not need the use of open flames (torch) during application.
- Components easy mixing ratio, 1:1 by volume.

### Technical Data

PROPERTIES	RESULTS	TEST METHOD
Elongation at 23 °C	> 2400 %	ASTM D 412 / DIN 52455
Tensile Strength	> 7 N/ mm <sup>2</sup>	ASTM D 412 / DIN 52455
E-Modulus	~1,0 N/ mm <sup>2</sup>	ASTM D 412 / DIN 52455
Tear Resistance	20 N/ mm	ASTM D 624
Puncture Resistance	290 N	ASTM E 154
Resistance to Hydrostatic pressure	No Leak @ 3 bar (30 m water column)	DIN 16726
Adhesion to concrete	1,1 N/mm <sup>2</sup>	ASTM D 903
Hardness (Shore A Scale)	35	ASTM D 2240 (15")
Thermal Resistance(80oC - 100 days)	Passed - No significant changes	EOTA TR-011
Hydrolysis (5% KOH, 7days cycle)	No significant elastomeric change	Inhouse Lab
Service Temperature	-30°C to +90°C	Inhouse Lab
Max Temperature Short Time (15 min shock)	250 °C	Inhouse Lab
Pot-Life	30 min	Conditions: 20 °C, 50% RH
Tack Free Time	2-4 hours	
Light Pedestrian Traffic Time	18-24 hours	
Final Curing Time	7 days	
Chemical properties	Good resistance against acidic and alkali solutions (10%), detergents, seawater, oils.	

## Application

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**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%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

**WARNING:** Do not wash surface with water!

**Priming:** Prime very absorbent and brittle concrete or brittle cement screed surfaces with MARISEAL<sup>®</sup> 710 , BILIZO PUR PRIMER, MARISEAL<sup>®</sup> AQUA PRIMER, BILIZO AQUA PRIMER; for bituminous or asphalt surfaces MARISEAL<sup>®</sup> 750 or MARISEAL<sup>®</sup> AQUA PRIMER , BILIZO MACRO PRIMER and prime non-absorbent surfaces like metal, ceramic tiles and old coatings with MARISEAL<sup>®</sup> AQUA PRIMER or BILIZO MACRO PRIMER. Allow the primer to cure according its technical instruction. Flat, high-quality concrete surfaces do not require priming.

**Waterproofing membrane:** Apply the MARISEAL<sup>®</sup> 600 A+B mixture onto the surface by roller, brush or teeth trowel, until all surface is covered. After 6-24 hours (not later than 72 hours) apply another layer of the MARISEAL<sup>®</sup>600. For demanding applications, apply a third layer of the MARISEAL<sup>®</sup>600.

If the MARISEAL<sup>®</sup> 600 is to be covered with ceramic tiles, fully saturate with oven-dry silica sand (corn-size 0,4-0,8mm) the last layer while still wet. This saturation will create an adhesion bridge to the tile adhesive that will follow.

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

**ATTENTION:** Please ensure consumption within the Pot Life.

The MARISEAL<sup>®</sup> 600 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.

**WARNING:** After 36-48 hours the material is applied, air temperature should be above 8°C , it should not be rainy or snowy and should be applied with considering the possibility of raining.

## Packaging

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MARISEAL<sup>®</sup> 600 is supplied in 20+20 l and 5+5 l metal pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

## Safety Measures

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MARISEAL<sup>®</sup> 600 contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet.

PROFESSIONAL USE ONLY.