

# MARISEAL®710

Polyurethane Primer  
Quick-drying  
Solvent-based

TECHNICAL DATA SHEET  
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## Product Description

**MARISEAL® 710 is a transparent, rigid, deep penetrating, quick drying polyurethane primer.**

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### Product Information

- One-component polyurethane solvent-based primer ground & air moisture-cured

### Packaging

- 1/5/10/17 kg metal pails

### Color

- Brown-yellow

### Shelf Life

- 12 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 or brush)
- Quick drying
- Deep penetrating
- Excellent anchoring to absorbent surfaces
- Resistant to stagnating water
- Provides high tensile and impact strength
- Heat and frost resistant
- Stops the creation of dust
- Chemical resistant

## ■ Uses

Mainly used as a primer for polyurethane waterproofing coatings and polyurethane joint sealants on absorbent surfaces like:

- Concrete
- Mortar
- Plaster
- Wood, etc.

## ■ Consumption

- 0,200 kg/m<sup>2</sup> in one layer

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.

## ■ Certifications



### EN1504-2: Surface protection for concrete (consumption 0.2kg/m<sup>2</sup>)

PROPERTY	PERFORMANCE
Water vapour permeability	Class I: S <sub>D</sub> < 5 m
Capillary absorption and permeability to water	ω < 0,1 kg/m <sup>2</sup> .h <sup>0,5</sup>
Adhesion strength by pull-off test	≥ 1,5 (1,0) N/mm <sup>2</sup>



### Technical Data

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane pre-polymer. Solvent based	
Adhesion to concrete	>1,8 N/mm <sup>2</sup> (concrete failure)	EN 1542
Hardness (SHORE A Scale)	>95	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Service Temperature	-30°C to +90°C	Inhouse lab
Application Temperature	5°C to 35°C	Conditions: 20°C, 50% RH
Tack free time	60 min	Conditions: 20°C, 50% RH
Overcoating time	2-3 hours	Conditions: 20°C, 50% RH
Final Curing time	7 days	Conditions: 20°C, 50% RH



EPD verified

## ■ Application

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### **Surface Preparation**

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be grinded with a stone- or a diamond-grinding machine. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. 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 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!

**WARNING:** Do not use a metal-ball blasting machine to grind the surface, because the heavy metal-ball impacts destroy the cohesion of the concrete surface and lower its stability.

### **Priming**

For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperature retards cure, while high temperature speeds up curing. High humidity may affect the final finish.

Apply MARISEAL® 710 by roller or brush, until the surface is covered. You can use airless spray allowing a considerable saving of manpower.

After 1-3 hours (not later than 4 hours) and while the primer is still a bit tacky, apply the polyurethane coating or the polyurethane joint sealant.

**RECOMMENDATION:** If the surface is very brittle, like lightweight concrete or high porous cement screed, apply two layers of MARISEAL®710.

## ■ Safety measures

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MARISEAL® 710 contains isocyanates. See information supplied by the manufacturer. Flammable. 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. The applied primer might yellow and/or fade upon UV exposure.

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