

# MARISEAL<sup>®</sup> 710

## Polyurethane primer Absorbent surfaces

### Product description

MARISEAL<sup>®</sup> 710 is a transparent, semi-rigid, deep penetrating, one component polyurethane primer. Solvent based. Cures by reaction with ground and air moisture.

### Advantages

- Simple application (roller or airless spray).
- Excellent anchoring to the surface of absorbing surfaces.
- Quick curing.
- Provides enough elasticity to follow surface movements.
- Resistant to stagnating water.
- Resistant to frost.

### Uses

The MARISEAL<sup>®</sup> 710 is mainly used as a primer for polyurethane waterproofing coatings and polyurethane joint-sealants on absorbent surfaces like:

- Concrete
- Lightweight concrete
- Cement screeds
- Mortar
- Wood, etc.

It can also be used as a surface stabilizer of old and brittle concrete surfaces.

It can also be used as a chemical resistant protection film against oils, grease, moisture, chemicals and other liquid dirt staining.

### Consumption

200 -250 gr/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.

### Technical data

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane Pre-polymer, solvent based	
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN 1928, Test A
Adhesion to concrete	2,2 + 0,2 N/mm <sup>2</sup> (Concrete failure)	ASTM D 903
Hardness (Shore A Scale)	>95	ASTM D 2240
Application Temperature	5 <sup>o</sup> C to 35 <sup>o</sup> C	Conditions: 20°C, 50% RH
Tack Free Time	2-3 hours	
Light Pedestrian Traffic Time	12 hours	
Final Curing time	4 days	

### Chemical properties

Potassium hydroxide 20%	+	Sodium hydroxide 20%	+
Ammonia 10%	+	Sulfuric acid 10%	+
Hydrochloric acid 10%	+	Sea water	+
Benzene	+	Toluene	±
Domestic detergents	+	Dichlormethane	-
Diesel oil	+	N-methyl pyrrolidon (brake fluid)	-

{+ Stable, - Not stable, ± Stable for a short period.

## 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 primer. Maximum moisture content should not exceed 5%. 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!

### Priming

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.

Apply the MARISEAL® 710 by roller or brush, until the surface to be primed, is covered. For larger surfaces, airless spray application is possible.

After 2-3 hours (not later than 4 hours) and while the primer is still a bit tacky, apply the polyurethane waterproofing coating or the polyurethane joint-sealant.

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

## Packaging

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MARISEAL® 710 is supplied in 17 kg, 10 kg, 5 kg and 1kg 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<sup>o</sup>-30<sup>o</sup>C. 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® 710 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.