

## MARISEAL® 710W

TECHNICAL DATA SHEET

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### Polyurethane Primer, Water-based

#### Product Description

MARISEAL® 710W is a water-based, transparent, semi-rigid, deep penetrating, quick drying polyurethane primer. MARISEAL® 710W consists of flexible, water-based polyurethane resins (dispersion).

MARISEAL® 710W is based on the innovative **PUD-Technology™** of MARIS POLYMERS SMSA

#### Advantages

- Simple application (roller or airless spray)
- Quick drying
- Deep penetrating
- Excellent anchoring to absorbent surfaces
- Heat and frost resistant
- Stops the creation of dust
- Maintains its mechanical properties over a temperature span of -30°C to +80°C.
- Low VOC content <100 gr/l

#### PRODUCT INFORMATION

**Chemical Base** One-component water-based polyurethane primer

**Packaging** 1/5/20 kg plastic pails

**Colour** Milky-transparent

**Shelf Life** 18 months from date of production

#### Main Uses

- Concrete
- Mortar
- Plaster
- Wood, etc.

#### Consumption

0,200 kg/m<sup>2</sup> applied in one or two 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.

MARISEAL® 710W can be used in combination with the MARISEAL AQUA SYSTEM (MARISEAL®250W, MARISEAL® 400W, etc.)

#### PUD Technology™: The Sustainable Revolution in Polyurethane



MARISEAL® 710W is based on the innovative **PUD Technology™** of MARIS POLYMERS, which enables, long-chain polyurethane macromolecules to be incorporated in a water medium, forming stable dispersions.

The **PUD Technology™** based products, have the advantage offering the high-level properties of solvent based products, in an ecological, consumer and environmentally friendly, water-based, low VOC, non-ADR transport product.

The **PUD Technology™** is the entry to the Sustainable Revolution in Polyurethane-based products.

# Maris Polymers®

## POLYURETHANE SYSTEMS

### Technical data\*

PROPERTY	RESULTS	TEST METHOD
Adhesion to concrete	>1,5 N/mm <sup>2</sup>	EN 1542
Hardness (SHORE A Scale)	>80	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
Water Vapor Permeability	>15 gr/m <sup>2</sup> /day	ISO 9932:91
Tack free time	90 min	Conditions: 20°C, 50% RH
Overcoating time	3-4 hours	
Final Curing time	10 days	

### Certifications

**EN1504-2: Surface protection for concrete. Certification of Mariseal Water-based system:  
0.2kg Mariseal 710W, 1.4kg Mariseal 250W, 0.25kg Mariseal 400W**



### 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 should not exceed 6%. 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 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 30°C. Low temperature retards cure, while high temperature speeds up curing. High humidity may affect the final finish.

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

After 1-3 hours and while the primer is still a bit tacky, apply the water-based polyurethane coating.

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

**Storage Conditions** MARISEAL® 710 W 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.

#### PROTECT FROM FROST

#### Safety measures

Keep away from children. Do not use empty containers for food storage. 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. The applied primer might yellow and/or fade upon UV exposure.

CONSTRUCTION

