Maris Polymers®
POLYURETHANE SYSTEMS

TECHNICAL DATA SHEET
Date: 01.06.2011 – Version 10

CONSTRUCTION

MARISEAL® 710

Polyurethane Primer, solvent based

Product description

MARISEAL® 710 is a transparent, rigid, deep penetrating, one component, quick drying polyurethane primer. Solvent-based.
Used as a primer in waterproofing and sealing applications on absorbent surfaces.

Cures by reaction with ground and air moisture.

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

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

- Concrete
- Mortar
- Plaster
- Wood, etc.

It can also be used as a primer on mineral-finished bitumen-felts as it bonds the mineral very efficient.

Consumption

200 gr/m^2 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.

Colors

The MARISEAL® 710 is supplied transparent

Technical data*

PROPERTY	RESULTS	TEST METHOD
Composition	Polyurethane pre-polymer. Solvent based	
Adhesion to concrete	>1,8 N/mm^2 (concrete failure)	ASTM D 903
Hardness (SHORE A Scale)	>95	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Service Temperature	-30^{0}C to +90^{0}C	Inhouse lab
Application Temperature	5^{0}C to 35^{0}C	Conditions: 20^{o}C, 50% RH
Tack free time	60 min	
Overcoating time	2-3 hours	
Final Curing time	7 days	

TÜVRheinland® CERT ISO 9001
TÜVRheinland® CERT ISO 14001

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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 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 smoothened. 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 5oC and 35oC. 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 is covered. You can use airless spray allowing a considerable saving of manpower.
After 2-3 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 porous cement screed, apply two layers of the MARISEAL®710.

Packaging

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: 5^0-30^0C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARISEAL® 710 contains isocyanates. See information supplied by the manufacturer. Flammable. Please study the Safety Data sheet. PROFESSIONAL USE ONLY

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