MARISEAL® AQUA-PRIMER

Water-Based Epoxy Primer,Non-Absorbent Surfaces

Product Description

MARISEAL® AQUA-PRIMER is a transparent, rigid, deep penetrating, two-component epoxy primer. Water based. Cures by reaction (cross linking) of the two components.

Consumption

100–200 gr/m^2 in one or two layers.
This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like temperature, humidity, application method and finish required can alter consumption.

Uses

MARISEAL® AQUA-PRIMER is mainly used as a primer for polyurethane coatings and polyurethane joint-sealants on non-absorbent surfaces like:

- Aluminum.
- Steel.
- Asphalt.
- Bitumen-felts.
- Glass.
- Ceramic tiles.
- Old acryl-based coatings, etc.

It can also be used as a primer on moist concrete surfaces.

Advantages

- Simple application (roller or brush).
- Excellent anchoring to non-absorbent surfaces.
- Can be applied on moist surfaces, without loss of adhesion.
- Stagnating water resistant.
- Can be diluted with water.

Packaging

MARISEAL® AQUA-PRIMER A+B is supplied in 15+5 kg and 3+1 kg pails.

Technical Data

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener, Water-Based	
Mixing Ratio	A : B = 3 : 1 by weight	
Adhesion to aluminum	>2,0 N/mm^2	ASTM D 903
Adhesion to moist concrete	>1,8 N/mm^2	ASTM D 903
Hardness (Shore A Scale)	>95	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	
Service Temperature	-30°C to +90°C	Inhouse lab
Application Temperature	10°C to 35°C	Conditions: 20°C, 50% RH
Pot-Life	45-50 mins	
Overcoating Time	6-12 saat	
Final Curing time	7 days	

Application

Surface Preparation

The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the primer. Old 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.

MARISEAL® AQUA-PRIMER Component A and Component B should be mixed by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min.

ATTENTION: The mixing of the components has to be effected very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.

Dilute mixture with 10–20% of clean water, to regulate viscosity.

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® AQUA-PRIMER (diluted) by roller or brush, until the surface is covered.
After approx. 8-12 hours (not later than 24 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 cement screed, apply two layers of the MARISEAL® AQUA-PRIMER. Do not apply the MARISEAL® AQUA PRIMER, at ambient and ground temperatures under 10oC.

Storage

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

Safety Measures

MARISEAL® AQUA-PRIMER contains amines and epoxy resins. Adequate ventilation is required during the application. Hands and eyes must be protected with gloves and protective glasses. Case of eye contact, rinse eyes with plenty of water for the material and consult a doctor immediately. Before polymerization tools and hands should be cleaned with plenty of water.