

MARISEAL[®] AQUA PRIMER

Epoxy Primer
Water-based

TECHNICAL DATA SHEET
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Product Description

MARISEAL[®] AQUA PRIMER is a transparent, rigid, epoxy primer. Used as a primer in waterproofing, sealing and floor coating applications on non-absorbent, semi-absorbent or absorbent surfaces. Cures by reaction (cross linking) of the two components.

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Product Information

- Two-component epoxy water-based primer

Packaging

- 15+5 / 3+1 kg metal pails

Color

- Milky 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)
- Low Odor
- Excellent anchoring to absorbent and non-absorbent surfaces
- Can be applied on moist surfaces, without loss of adhesion
- Resistant to stagnating water
- Can be diluted with water
- Provides high tensile and impact strength
- Heat and frost resistant
- Stops the creation of dust
- Chemical resistant

■ Uses

MARISEAL® AQUA PRIMER is mainly used as a primer for polyurethane waterproofing coatings, polyurethane joint sealants and polyurethane and epoxy floor coatings on non-absorbent / semi-absorbent or absorbent surfaces like:

- Concrete or Power floated concrete
- Wood
- Metal (various)
- Asphalt
- Bitumen felts
- Ceramic Tiles
- Glass
- Old Acryl-based coatings, etc.

■ Consumption

- 0,100 – 0,200 kg/m² in one or two layers

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 product for concrete (0.2kg/m²)



Technical Data*

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener. Water based	
Mixing Ratio	A:B = 3:1	
Adhesion to aluminum	>2 N/mm ²	EN 1542
Adhesion to concrete	>4.5 N/mm ²	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
Pot Life	45-50 min	Conditions: 20°C, 50% RH
Overcoating time	6-12 hours	Conditions: 20°C, 50% RH
Final Curing Time	7 days	Conditions: 20°C, 50% RH
Application Temperature	10°C to 35°C	Conditions: 20°C, 50% RH



Part of ETA21/0248 IETcc (EAD 030350-00-0402)



EPD verified

■ Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

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

Maximum moisture content should not exceed 8%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. 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. For any other type of substrate contact technical support department.

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.

Mixing

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 15-25% of clean water, to regulate viscosity.

Priming

Apply MARISEAL® AQUA-PRIMER (diluted with clean water) by roller or brush, until the surface is covered.

After approx. 6-12 hours (not later than 24 hours) and while the primer is still a bit tacky, apply the polyurethane coating or the polyurethane joint-sealant.

ATTENTION: Please ensure consumption within the Pot Life.

WARNING: Do not apply MARISEAL® AQUA PRIMER, at ambient and ground temperatures under 10°C.

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

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.

■ Safety measures

MARISEAL® AQUA PRIMER contains amines and epoxy resins. 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 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.

MARIS POLYMERS S.M.S.A.

Industrial Area of Inofita • 320 11 Inofita • Greece Tel: +30 22620 32918-9
marispolymers@saint-gobain.com • www.marispolymers.com