

MARITHAN EP® PRIMER

Epoxy Primer, water based

Product description

MARITHAN EP® PRIMER is a transparent, rigid, two component epoxy primer. Water-based. Used as a universal primer in waterproofing, sealing and floor coating applications on absorbent and non-absorbent surfaces.

Cures by reaction (cross linking) of the two components.

Advantages

- Simple application (roller or brush).
- 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

The MARITHAN EP® PRIMER is mainly used as a primer for polyurethane waterproofing coatings, polyurethane joint sealants and polyurethane and epoxy floor coatings on non-absorbent surfaces like:

- Power floated concrete
- Metal (various)
- Asphalt
- Bitumenfelts
- Ceramic Tiles
- Glass
- Old Acryl-based coatings, etc.

It can also be used as a primer on absorbent surfaces like concrete, mortar, plaster, etc.

It can also be used on moist concrete surfaces.

It is also used as a tack-coat between coating layers if intercoating time intervals are overstepped.

Consumption

100 - 200 gr/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.

Colors

The MARITHAN EP® PRIMER is supplied transparent

Technical data*

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener. Water based	
Mixing Ratio	A : B = 3 : 1	
Adhesion to aluminium	>2 N/mm ²	ASTM D 903
Adhesion to moist concrete (6%)	>1,5 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	-20°C to +90°C	Inhouse lab
Application Temperature	10°C to 35°C	Conditions: 20°C, 50% RH
Pot Life	45 min	
Overcoating time	6-18 hours	
Final Curing time	7 days	

Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.

The 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 7%. 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.

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

MARITHAN EP® 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

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 MARITHAN EP® PRIMER (diluted with 15-25% 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.

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

ATTENTION: Please ensure consumption within the Pot Life.

WARNING: Do not apply the MARITHAN EP® PRIMER, at ambient and ground temperatures under 10°C.

Packaging

MARITHAN EP® PRIMER is supplied in 15+5kg and 3+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°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARITHAN EP® 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, 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.

* All values represent typical values and are not part of the product specification. Upon UV exposure the primer might yellow.