Maris Polymers®
POLYURETHANE SYSTEMS

TECHNICAL DATA SHEET
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MARISEAL® 750

Epoxy Primer, Solvent free

CONSTRUCTION

Product description

MARISEAL® 750 is a transparent, rigid, two component epoxy solvent-free primer used as a primer in high impact floor coating / waterproofing applications.

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

Advantages

- Simple application).
- Excellent anchoring to the surface
- Provides high tensile and impact strength.
- Heat and frost resistant
- Stops the creation of dust.
- Vapor block
- Chemical resistant.

Uses

The MARISEAL® 750 is mainly used as a primer for polyurethane waterproofing coatings floor surfaces like:

- Concrete
- Power floated concrete
- Metal (various)
- Asphalt
- Wood, etc.

Consumption

200 - 300 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® 750 is supplied transparent

Technical data*

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener	
Mixing Ratio	A:B = 100:50	
Solid Content	100%	Calculated
Adhesion to Concrete	>2 N/mm^2 (concrete failure)	ASTM D 903
Hardness (SHORE D Scale)	40	ASTM D 2240
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN EN 1928
Application Temperature	12^{o}C to 35^{o}C	Conditions: 20^{o}C, 50% RH
Tack Free Time	3-5 hours	
Light Trafficking	12-24 hours	
Final Curing time	7 days	

Chemical properties**

Potassium hydroxide 5%	+	Sodium hydroxide 5%	+
Ammonia 5%	+	Sulfuric acid 5%	+
Hydrochloric acid 5%	+	Sea water	+
Domestic detergents (diluted)	+	Dichlormethane	-
Diesel fuel	+	N-methyl pyrrolidone (brake fluid)	-
{+ Stable, - Not stable, ± Stable for a short period.			

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Application

Surface Preparation

Careful surface preparation is essential for optimum finish and durability.
The surface needs to be grinded with a stone- or a diamond-grinding machine. The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect the adhesion of the coating. 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 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.

Repair of cracks:

Clean cracks and hairline cracks, of dust, residue or other contamination. Fill all cracks with suitable putty. The next day smoothen the putty surface with a sandpaper or a mechanical grinder.

Mixing

MARISEAL® 750 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.

Priming

Apply the MARISEAL® 750 A+B mixture by roller or brush, until the surface to be primed, is covered. Sprinkle oven dry silica sand (corn size 0,3-0,5mm) evenly onto the wet primer especially when a self-levelling coating is to follow.
After 18 hours (not later than 24 hours) and while the primer is still a bit soft, apply the epoxy or polyurethane floor coating.

ATTENTION: Please ensure consumption within the Pot Life.
WARNING: Do not apply the MARISEAL® 750, at ambient and ground temperatures under 10°C.
WARNING: The MARISEAL® 750 and/or the MARISEAL® SYSTEM is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.

For best results, the temperature during application and cure should be between 12°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

Packaging

MARISEAL® 750 A+B is supplied in 8+4kg and 4+2kg 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

MARISEAL® 750 contains amines. See information supplied by the manufacturer. Please study the Safety Data sheet. PROFESSIONAL USE ONLY.

* All values represent typical values and are not part of the product specification. ** Chemical resistance tests time: 24hours. *** Colors tend to yellow and fade upon exposure to UV radiation. Nevertheless, mechanical properties remain unchanged.