

MARIPOX[®] 2540

Transparent Epoxy Self-leveling Floor Coating Low yellowing, Solvent free

Product description

MARIPOX[®] 2540 is a transparent, rigid, self-leveling, two component epoxy solvent-free coating.

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

Advantages

- Simple application.
- Low yellowing
- Excellent anchoring to the surface.
- Solvent-free.
- Provides high tensile and impact strength.
- Strong resistance to chemicals.

Uses

The MARIPOX[®] 2540 is widely used for decoration purposes as a transparent self-leveling coating which embeds drawings and decoration objects on floors

The MARIPOX[®] 2540 is also used as a binder resin for decorative colored sandcarpet floor coatings.

The MARIPOX[®] 2540 is also used as a primer for epoxy and polyurethane floor coatings.

Consumption

As a self leveling coating, 1,1 kg/m² per mm thickness. These consumptions are based on practical application by trowel onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method and finish required can alter consumption.

Technical data

PROPERTY	RESULTS	TEST METHOD
Composition	Epoxy resin + Hardener	
Mixing Ratio	A : B = 100 : 60 by weight	
Solid content	100%	CALCULATED
Resistance to Water Pressure	No Leak (1m water column, 24h)	DIN 1928, Test A
Adhesion to concrete	>2,2 N/mm ² (Concrete failure)	ASTM D 903
Hardness (Shore A Scale)	>95	ASTM D 2240
Application Temperature	12 ^o C to 35 ^o C	Conditions: 20 ^o C, 50% RH
Pot Life	40 min	
Tack Free Time	6 hours	
Light Trafficking	12 hours	
Final Curing time	7 days	

Chemical properties

Potassium hydroxide 10%	+	Sulfuric acid 10%	+
Ammonia 10%	±	Salt 30%	+
Hydrochloric acid 10%	+	Sea water	+
Unleaded fuel	+	Common detergents	+
Diesel fuel	+	N-methylpyrrolidon (brake fluid)	-
Mineral oils	+	Dichlor methane	-

{+ Stable, - Not stable, ± Stable for a short period.

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%. 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 blasting destructs the surface.

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

MARIPOX[®] 2540 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.

Application of the transparent self-leveling coating

Apply the MARIPOX[®] 2540 A+B mixture by suitable sized teeth trowel, until the surface to be coated, is covered. Wear spike shoes and roll the entire wet coating with a spike roller, to help encapsulated air escape.

Application of decorative sandcarpet coating

Pour the MARIPOX[®] 2540 A+B mixture into the oven dry colored Silica Sand and mix by low speed mechanical stirrer, according to the stipulated mixing ratio, for about 3-5 min.

The mixing ratio of the colored Silica Sand to the MARIPOX[®] 2540 A+B should be kept at around **10:1**.

Pour the Mixture onto the surface to be covered, spread out by using guides and smoothen with a low weight helicopter leveling machine. Minimum coating thickness of the sandcarpet coating should not be less than 5mm.

ATTENTION: Please ensure consumption within the Pot Life.

WARNING: Do not apply the MARIPOX[®] 2540, at ambient and ground temperatures under 10°C.

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

MARIPOX[®] 2540 A+B is supplied in 8+4,8kg and 4+2,4kg 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^o-30^oC. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.

Safety measures

MARIPOX[®] 2540 contains amines. See information supplied by the manufacturer. Please study the Safety Data sheet.

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.