EPOXI PRIMER 5511 AQUA

TWO-COMPONENT WATER-BASED EPOXY FOR PRIMING AND SEALING OF PAVEMENTS

FORMAT

Kit A+B: 12.1 kg

PROPERTIES

Water based product
Can be used as primer and topcoat
Excellent adhesion on concrete
High penetration into concrete
High transparency
Waterproof after curing
High mechanical strength
Low odour

PRODUCT DESCRIPTION

Two-component water-based epoxy paint, free of solvents and volatile organic compounds (VOC), specially formulated for protection and decoration of continuous concrete floors. With visible end-of-mixing life due to viscosity increase. Transparent product, with high fluidity and excellent penetration into the substrate. EPOXI PRIMER 5511 AQUA can be used as a primer and as a finishing product.

USES/SCOPE OF APPLICATION

EPOXI PRIMER 1311 SD should be used by professionals with experience in the application of floor coatings. The product is designed for use as a primer for cement and concrete and can be used as a consolidant for floors in poor condition. It has better resistance to substrate moisture than traditional solvent-based products. Suitable for use in car parks, industrial warehouses, workshops, warehouses, production areas, laboratories, shops, etc. The product is resistant to outdoor use, but when not coated its aesthetic properties may vary due to the effect of solar radiation (changes in colour and/or chalking), which does not affect the performance of the flooring.

REPORTS AND CERTIFICATES

Fire classification for floors Bfl-s1 according to EN 13501-1

Certificate of compliance with Directive 2004/42/EC on maximum content of Volatile Organic Compounds in paints and varnishes.

CHARACTERISTICS

Type of resin	Epoxy / Amine	
Presentation	Component A: 9,5 kg Component B: 2,6 kg Kit A+B: 12.1 kg	(EPOXY PRIMER 5511 AQUA) (EPOXY CATALYST 5510 AQUA)
Finishing	Brilliant	
Colour	Slightly yellowish / Transparent	
Mixing ratio	3.7 : 1 by weight (A:B)	3 : 1 in volume (A:B)
Solids by Weight	63-67%	UNE-EN ISO 3251
Solids by volume	51-55%	UNE-EN ISO 23811
Dilution	Depending on application (0-25%)	
Diluent	Water	

TECHNICAL INFORMATION

Density	Mixture A + B : 1.27 ± 0.05 g/mL	UNE-EN ISO 2811-1
Viscosity	Mixture A + B : 130 ± 10 KU	UNE 48076
Volatile organic compound (VOC) content	EU maximum permitted value: 140 g/L	Directive 2004/42/II A (j)
Tensile adhesion	2,3 N/mm2 (concrete breakage)	UNE-EN 13892-8
Abrasion resistance	89 mg (CS17/1000/1000)	EN ISO 7784-1
Impact resistance	13.5 N-m	UNE EN ISO 6272-1
Hardness Persoz	270 s (14 days)	UNE-EN ISO 1522
Chemical resistance	ND	UNE-EN ISO 2812-3 UNE-EN ISO 4628
Slip resistance	ND	UNE-EN 16155

Lifetime	10ºC	90 min	Shelf life for 1 kg of mixture A+B
	20ºC	60 min	
	30ºC	45 min	
Drying time	10ºC	8 h	UNE 48301 Dust drying
	20ºC	6 h	
	30ºC	3 h	

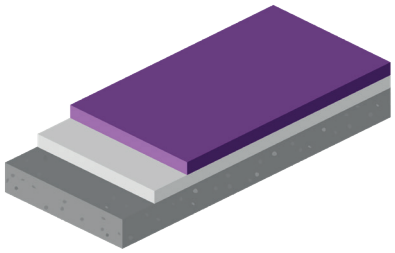
Repainting time	Myself		Solvent-based products	
	min	max	min	max
10ºC	18 h	5 days	24 h	6 days
20ºC	12 h	3 days	18 h	4 days
30ºC	6 h	2 days	12 h	3 days

Transitability	Pedestrian Traffic	Light Traffic	Full cure
10ºC	3 days	7 days	14 days
20ºC	24 h	4 days	7 days
30ºC	18 h	3 days	5 days

Note: Times are approximate and may be modified by environmental conditions and thickness applied.

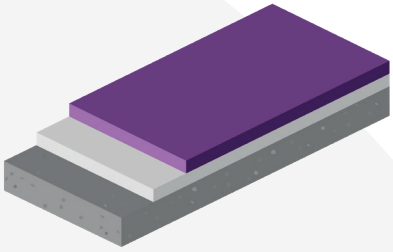
APPLICATION SYSTEMS

PAINTING 1



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 5511 AQUA	0.1-0.2 kg/m2	1 o 2	40-75 µm
FINISH	EPOXI 5512 AQUA	0.1-0.2 kg/m2	1 o 2	40-75 µm
TOTAL		0.2-0.4 kg/m2	2 o 3	80-150 µm

PAINTING 2



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 5511 AQUA	0.1-0.2 kg/m2	1 o 2	40-75 µm
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TOTAL		0.2-0.4 kg/m2	2 o 3	80-150 µm

(*) The product can be finished as a clear varnish or as a coloured finish.

Note: These data are theoretical and do not take into account additional material costs due to porosity, roughness, losses, etc.

Note: For outdoor application it is recommended to use a protective top coat with a coloured product with high resistance to solar radiation such as PU 2512.

Note: For ease of maintenance it is recommended to use a final coat of protection with a clear varnish such as EPOXY VARNISH 1513 for indoor use or POLYURETHANE VARNISH 2113 for outdoor use.

Note: For application on concrete floors with moisture problems, use STEAM BARRIER 1331 SD as a primer.

IMPLEMENTATION PROCESS

ENVIRONMENTAL CONDITIONS

Application temperature: 10ºC to 35ºC.

Maximum 80% relative humidity.

Do not apply if rain is expected or at hours of maximum sunlight.

The substrate and ambient temperature must be at least 3ºC above the dew point during application to avoid condensation.

PREPARATION OF THE SUBSTRATE

The surface must be clean, compact, dry, free of dust or salts, free of efflorescence, free of loose or poorly adhering parts and free of any grease, oil or contamination that could interfere with the adhesion of the system.

The surface must be prepared with specialised machinery: milling, sanding or diamond grinding machines, depending on the condition of the substrate. Subsequently, the surface must be thoroughly brushed and vacuumed. The sanding or shot blasting process must leave a surface with sufficient porosity for the paint to anchor.
Materials in poor condition must be completely removed and cracks and areas in poor condition must be repaired until a sound, dry and clean substrate is obtained. Expansion joints must be respected and properly sealed with elastomeric material.

If necessary, use levelling or repair mortars to level the surface.

SUPPORT CONDITIONS

Dry substrate with humidity < 5 % with CM meter.

There shall be no rising damp measured by the polyethylene film method (ASTM E1907).

Concrete substrates must have a compressive strength above 25 N/mm2 and a tensile strength above 1.5 N/mm2.

Allow cement mortars to set completely (28 days minimum).

PRODUCT PREPARATION

Stir with low speed mechanical means (300-400 RPM), until a good homogenisation of the product and its catalyst is achieved. Mix component A, add component B while stirring and keep stirring for 3 minutes. To ensure consistency, reintroduce part of the mixture into the can of component B, homogenise, reintroduce back into the mixing container and homogenise again.

The mixing life time should be taken into account in order not to prepare more product than can be used in that time. After the mixing life has been exceeded, the product loses its properties and must be discarded. The product has a visible end of mixing life due to increased viscosity. Partial mixing by weight or volume is not recommended.

Adjust the viscosity with water according to the ambient conditions and the application process.

Stir again periodically to homogenise the product.

PRODUCT APPLICATION

It can be applied by brush, roller or airless spray gun. It is necessary to ensure the formation of continuous and pore-free coats, applying two coats or increasing the thickness per coat if necessary.

The minimum and maximum recoating times of all products to be used must be observed. Otherwise, sanding and repainting will be necessary.

For a smooth thin film finish it can be applied by brush, short nap roller, rubber lip or airless spray gun with nozzle suitable for high viscosity products.

For brush or roller application dilute up to a maximum of 15% water. For airless spray gun dilute up to a maximum of 25% water.

The applied product must be protected from moisture and condensation for at least 24 hours.

TOOL CLEANING The utensils used must be cleaned with water immediately after use.

ADDITIONAL INFORMATION

HEALTH AND SAFETY For any information concerning safety issues in the use, storage, transport and disposal of this product, users should consult the labelling and the most recent version of the product's MSDS, which contains the safety, ecological and toxicological information on the product.

Material Safety Data Sheet: MSDS-333

LER CODE: 08 01 12

WASTE: NON-HAZARDOUS

TARIFF HEADING TARIC code: 3209 90 00

STORAGE CONDITIONS The storage should be in a cool and dry place (between 5 and 30ºC), in its original containers, well closed and not deteriorated, protected from frost and direct sunlight. The stability of the product in its original unopened containers, at ambient temperatures not higher than 30ºC and not lower than 5ºC shall be 12 months from the date of manufacture.

LEGAL NOTICE The technical information given in this document as well as the recommendations concerning the application and use of the product are given in good faith, with data based on current knowledge of the product, laboratory tests and practical use under normal conditions of storage, handling and application. The complete reproducibility of the data given for each individual use is not guaranteed. The user of the product must test the suitability of the product according to the end use of the product. Users must know and use the most recent version of the technical and safety data sheets of the product.

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