BARNIZ EPOXI 1513

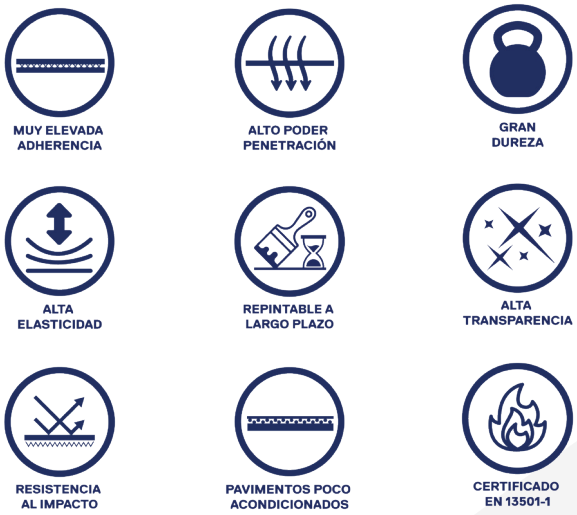
TWO-COMPONENT ANTI-DUST EPOXY VARNISH FOR SEALING FLOORS

FORMAT

Kit A+B: 12 kg

PROPERTIES

Excellent adhesion
High hardness and elasticity
Resistance to chemical agents
Abrasion resistance
High impregnation capacity
Impact resistance
Long mixing life



PRODUCT DESCRIPTION

Colourless two-component solvent-based colourless varnish based on epoxy-polyamidoamine resins, which forms a hard, compact, glossy and waterproofing film with high adhesion when dry. It has very good resistance to abrasion, fresh and salt water, solvents and dilute solutions of acids and alkalis. Suitable for protecting and waterproofing industrial floors and for consolidating degraded concrete or cement surfaces.

USES/SCOPE OF APPLICATION

EPOXI VARNISH 1513 should be used by professionals with experience in the application of floor coatings. The product is designed for use as a sealer varnish for cement and concrete and can be used as a consolidant for pavements in poor condition. It can be used as a primer. It can also be used as a sealer coat for indoor flooring systems to facilitate maintenance. Suitable for use in car parks, industrial buildings, workshops, warehouses, production areas, etc.

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 / Polyamidoamine Adduct	
Presentation	Component A: 8 kg Component B: 4 kg Kit A+B: 12 kg	(EPOXY VARNISH 1513) (EPOXY CATALYST 1510)
Finishing	Brilliant	
Colour	Colourless / Transparent	
Mixing ratio	2 : 1 by weight (A:B)	1.8 : 1 by volume (A:B)
Solids by Weight	52-56%	UNE-EN ISO 3251
Solids by volume	46-50%	UNE-EN ISO 23811
Dilution	10-30% Depending on application system	
Diluent	EPOXY SOLVENT 370, INDUSTRIAL EPOXY SOLVENT 375	

TECHNICAL INFORMATION

Density	Mixture A + B : 0.98 ± 0.05 g/mL	UNE-EN ISO 2811-1
Viscosity	Mixture A + B : 80 ± 10 KU	UNE 48076
Volatile organic compound (VOC) content	EU maximum permitted value: 500 g/L	Directive 2004/42/II A (j)
Tensile adhesion	5 N/mm2 (concrete breakage)	UNE-EN 1542
Abrasion resistance	22 mg (CS17/1000/1000)	EN ISO 7784-1
Impact resistance	ND	UNE EN ISO 6272-1
Hardness Persoz	300 s (28 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	8 h	Shelf life for 1 kg of mixture A+B
	20ºC	6 h	
	30ºC	4 h	
Drying time	10ºC	6 h	UNE 48301 Dust drying
	20ºC	4 h	
	30ºC	3 h	

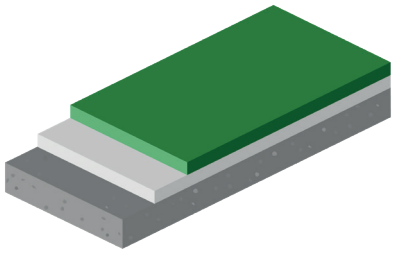
Repainting time	Myself		Solvent-based products	
	min	max	min	max
10ºC	24 h	30 days	24 h	30 days
20ºC	12 h	30 days	12 h	30 days
30ºC	8 h	30 days	8 h	30 days

Transitability	Pedestrian Traffic	Light Traffic	Full cure
10ºC	48 h	7 days	14 days
20ºC	18 h	3 days	7 days
30ºC	12 h	48 h	5 days

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

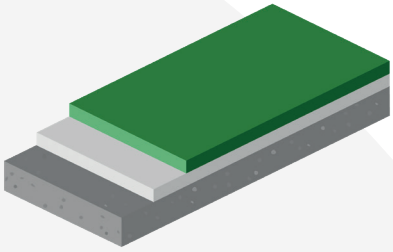
APPLICATION SYSTEMS

ANTI-DUST 1



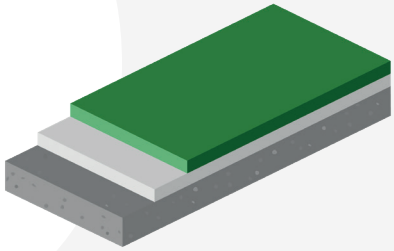
	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	BARNIZ EPOXI 1513	0.05-0.1 kg/m2	1	25-50 microns
FINISH	BARNIZ EPOXI 1513	0.05-0.1 kg/m2	1	25-50 microns
TOTAL		0.1-0.2 kg/m2	2	50-100 microns

INTERIOR PAINTING 1



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1511	0.1-0.2 kg/m2	1 o 2	40-80 microns
FINISH	BARNIZ EPOXI 1513	0.1-0.2 kg/m2	1 o 2	50-100 microns
TOTAL		0.2-0.4 kg/m2	2 o 3	90-180 microns

INTERIOR PAINTING 2



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1511	0.1-0.2 kg/m2	1 o 2	40-80 microns
FINISH	EPOXI 1512	0.1-0.2 kg/m2	1 o 2	40-90 microns
VARNISHING	BARNIZ EPOXI 1513 (*)	0.1 kg/m2	1	50 microns
TOTAL		0.2-0.5 kg/m2	2 o 3	80-220 microns

(*) Optional protection to facilitate maintenance

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

IMPLEMENTATION PROCESS

ENVIRONMENTAL CONDITIONS

Application temperature: 10ºC to 35ºC.
Maximum 80% relative humidity.

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.

On excessively polished surfaces sand to open the pore.

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 < 4 % 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.

Allow 10-20 minutes induction time before application. Adjust viscosity with a suitable thinner depending on environmental conditions and application process.

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

Stir again periodically to homogenise the product.

PRODUCT APPLICATION

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

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

For brush or roller application dilute with 10-30% of a suitable thinner.

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

TOOL CLEANING

The utensils used must be cleaned with solvent immediately after use.

Suitable solvents: EPOXY SOLVENT 370, INDUSTRIAL EPOXY SOLVENT 375, UNIVERSAL SOLVENT 302

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-303

LER CODE: 08 01 11*.

WASTE: HAZARDOUS

TARIFF HEADING

TARIC code: 3208 90 91

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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