

# EPOXI PRIMER 1311 SD

100% SOLIDS EPOXY RESIN FOR PRIMING, MORTARING AND SEALING OF FLOOR SCREEDS

## FORMAT

Kit A+B: 12 kg

## PROPERTIES

Solvent-free, 100% solids  
Can be used as primer and varnish  
High transparency and hardness  
Excellent adhesion on concrete  
High penetration into concrete  
Waterproof after curing  
High mechanical strength  
Low yellowing and low odour



100%  
SÓLIDOS



MUY ELEVADA  
ADHERENCIA



ALTA  
TRANSPARENCIA



ALTO PODER  
PENETRACIÓN



GRAN  
DUREZA



BAJOS COV'S



CERTIFICADO  
EN 13501-1



MARCADO CE

## PRODUCT DESCRIPTION

Two-component, solvent-free epoxy resin, specially formulated for protection and decoration of continuous concrete floors. Highly transparent, with high fluidity and excellent penetration into the substrate. It can be used as an anchoring coat, for levelling or repair mortars and as a base coat for multi-layer systems. It serves as a concrete floor primer for the entire range of epoxy and polyurethane products in the PROTEK range. In addition, EPOXI PRIMER 1311 SD can be used as a finishing coat.

## USES/SCOPE OF APPLICATION

EPOXI PRIMER 1311 SD should be used by professionals with experience in the application of floor coatings. Suitable for use in car parks, industrial warehouses, workshops, warehouses, production areas, food industry floors, laboratories, shops, etc. The product is resistant to outdoor conditions, but when not coated its aesthetic properties may vary due to the effect of solar radiation (colour changes 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

VOC emissions certificate in compliance with A+, ABG, EMICODE, Indoor Air Comfort and BlueAngel standards (392-2024-00527501)

CE marking according to European Regulation No. 305/2011 in accordance with EN 13813 with declaration of performance EUP-DDP13813-002

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

Direct tensile strength report according to UNE-EN 13892-8 (External Report N°24/32309597)

LEED v4 and v4.1 BETA Certificate of Compliance (Report 392-2024-00527501)

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EUPINCA S.A. C/ LONDRES, 13 POL. IND. CABEZO BEAZA 30353 - TORRECIEGA CARTAGENA EN 13813:2014	
PROTEK EPOXI PRIMER 1311 SD RESINA SINTÉTICA PARA PAVIMENTOS EN 13813:SR-B2,0	
FUEGO BFL-S1 EMISIÓN SUSTANCIAS CORROSIVAS SR RESISTENCIA A LA TRACCIÓN B 2,0	

## CHARACTERISTICS

Type of resin	Epoxy / Amine	
Presentation	Component A: 8 kg Component B: 4 kg Kit A+B: 12 kg	(EPOXY PRIMER 1311 SD) (EPOXY CATALYST 1310 SD)
Finishing	Brilliant	
Colour	Slightly yellowish / Transparent	
Mixing ratio	2 : 1 by weight (A:B)	1.9 : 1 by volume (A:B)
Solids by Weight	100%	UNE-EN ISO 3251
Solids by volume	100%	UNE-EN ISO 23811
Dilution	Dilution is not recommended	
Diluent	Dilution is not recommended	

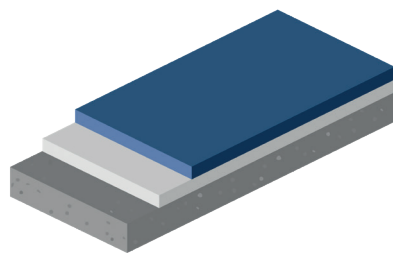
## TECHNICAL INFORMATION

Density	Mixture A + B : 1.08 ± 0.05 g/mL		UNE-EN ISO 2811-1	
Viscosity	Mixture A + B : 650 ± 300 mPa.s		ASTM D 2196-10	
Volatile organic compound (VOC) content	EU maximum permitted value: 500 g/L		Directive 2004/42/II A (j)	
Tensile adhesion	4.1 N/mm <sup>2</sup> (concrete breakage)		UNE-EN 13892-8	
Abrasion resistance	42 mg (CS17/1000/1000)		EN ISO 7784-1	
Impact resistance	6 N-m		UNE EN ISO 6272-1	
Shore hardness D	67 (After 7 days)		EN ISO 868	
Chemical resistance	ND		UNE-EN ISO 2812-3 UNE-EN ISO 4628	
Slip resistance	ND		UNE-EN 16155	
Lifetime	10°C	60 min	Shelf life for 1 kg of mixture A+B	
	20°C	40 min		
	30°C	30 min		
Drying time	10°C	24 h	UNE 48301 Dust drying	
	20°C	10 h		
	30°C	6 h		
Repainting time		Myself	Solvent-based products	
		min	max	
	10°C	36 h	5 days	48 h
	20°C	18 h	3 days	24 h
	30°C	6 h	2 days	12 h
Transitability		Pedestrian Traffic	Light Traffic	Full cure
	10°C	3 days	7 days	14 days
	20°C	24 h	4 days	7 days
	30°C	18 h	3 days	5 days

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

## APPLICATION SYSTEMS

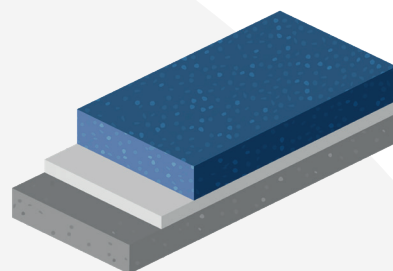
### PAINTING



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
FINISH	EPOXI 1312 SD (*)	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.1-0.2 mm
TOTAL		0.4-0.6 kg/m <sup>2</sup>	2 o 3	0.3-0.5 mm

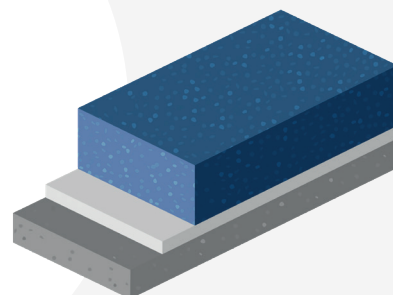
(\*) Other finishing options: EPOXI PRIMER 1311 SD or EPOXI 1322 SD

### LEVELLING MORTAR UP TO 2mm



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
MORTAR	EPOXI PRIMER 1311 SD + ARENA DE CUARZO 0,2-0,4 mm mezclados en proporción 1:0,5 (1 mm por cada 1,7 kg/m <sup>2</sup> )	2-3 kg/m <sup>2</sup>	1	1,2-2 mm
TOTAL		2.2-3.3 kg/m <sup>2</sup>	2 o 3	1.4-2.3 mm

### LEVELLING MORTAR > 2mm



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
MORTAR	EPOXI PRIMER 1311 SD + ARENA DE CUARZO 0,2-0,4 mm mezclados en proporción 1:1 (1 mm por cada 1,7 kg/m <sup>2</sup> )	3-6 kg/m <sup>2</sup>	1	2-4 mm
TOTAL		3.2-6.3 kg/m <sup>2</sup>	2 o 3	2,2-4,3 mm

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

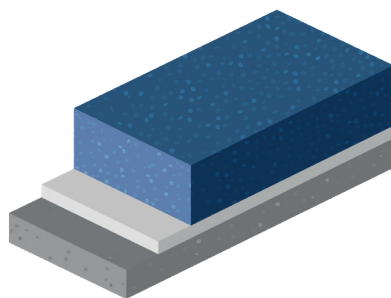
Note: For outdoor application it is recommended to use a protective top coat with a coloured product with high resistance to solar radiation such as POLYURETHANE 2512.

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.

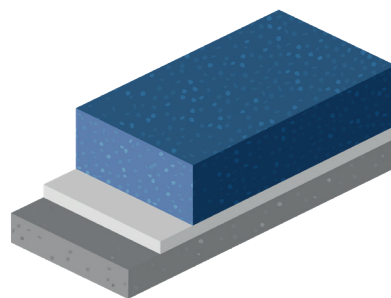
## APPLICATION SYSTEMS

## REPAIR MORTAR



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
FINISH	EPOXI PRIMER 1311 SD + ARENA DE CUARZO 0,2-0,4 mm + ARENA DE CUARZO 0,6 mm en proporción 1:2:2 hasta 1:3:4	-	1	10-20 mm
TOTAL			2 o 3	10-20 mm

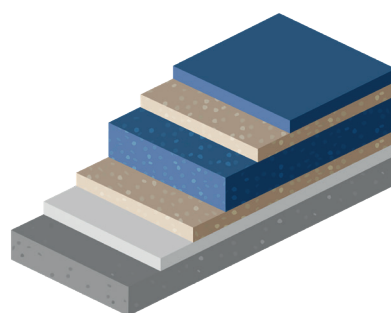
## AUTONIVELING



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
FINISH	EPOXI 1312 SD + ARENA DE CUARZO 0,2-0,4 mm mezclados en proporción 1:1 (1 mm por cada 1,9 kg/m <sup>2</sup> )	3-6 kg/m <sup>2</sup> of mixture	1	2-3 mm
TOTAL		3.2-6.3 kg/m <sup>2</sup>	2 o 3	2,2-3,3 mm

(\*) For further finishing options and thicknesses please refer to technical documentation of finishing products

## ANTI-SLIP MULTILAYER



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m <sup>2</sup>	1 o 2	0.2-0.3 mm
SPOLVOREO	Arena de cuarzo 0,6 mm	2-3 kg/m <sup>2</sup>	-	1-1.5 mm
ROLLER LAYER	EPOXI 1312 SD + ARENA DE CUARZO 0,2-0,4 mm mezclados en proporción 1:0,5 (1 mm por cada 1,7 kg/m <sup>2</sup> )	2-6 kg/m <sup>2</sup> mix	1	1-3 mm
SPOLVOREO	Arena de cuarzo 0,6 mm	2-3 kg/m <sup>2</sup>	-	1-1.5 mm
SEALING	EPOXI 1312 SD	0.5-0.7 kg/m <sup>2</sup>	1 o 2	0.4-0.6 mm
TOTAL		6.7-13 kg/m <sup>2</sup>	3 o 4	3,6-6,9 mm

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

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

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

## IMPLEMENTATION PROCESS

### ENVIRONMENTAL CONDITIONS

Application temperature: 10°C to 30°C.

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 3°C 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 < 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/mm<sup>2</sup> and a tensile strength above 1.5 N/mm<sup>2</sup>.

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.

If it is necessary to mix with quartz sand, the sand can be mixed on top of component A and then component B can be added. You can also mix components A and B and add the sand on top of the mixture, which makes the incorporation of the sand easier but loses some of the pot life of the mixture. Stir at low speed to avoid incorporation of air.

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

Depending on the thickness to be applied, different application methods can be used. The formation of a continuous, pore-free coats should be ensured by applying two coats or by increasing the thickness per coat if necessary. For medium to high thickness applications, it is recommended to pass a spiked roller in cross directions to remove air.

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

For use in specific systems such as self-levelling, anti-slip or multi-layer, consult the technical documentation of the finishing products.

Primer: For thin coat priming, it can be applied by brush, short nap roller, rubber lip or airless spray gun with nozzle suitable for high viscosity products. Depending on the porosity of the concrete, 1 or 2 coats will be necessary. For multi-layer systems, sprinkle with 0.6 mm quartz sand to saturation while the product is wet.

Levelling mortar: For levelling irregularities in the substrate up to 2-3mm. After mixing with the appropriate amount of aggregate, it can be applied by pouring, using a notched trowel to spread the product and de-aerating with a spiked roller. The thickness of the mortar is controlled by the size of the notched trowel. Repair mortar: Prime the surface, prepare a mixture of resin and sand containing 4-7 parts sand to 1 part resin. Pour the mortar while the primer has not yet hardened, spread and smooth with a trowel to repair imperfections.

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.

If the shelf life of the product is exceeded, an exothermic reaction takes place which produces heat. The more product is left in the container, the more heat is generated. If the temperature of the container rises or fumes are generated, place in a cool, well-ventilated place, ensuring thermal protection of the hands and holding the container by the handle.

Material Safety Data Sheet: MSDS-313

LER CODE: 08 01 11\*.

WASTE: HAZARDOUS

**TARIFF HEADING**

TARIC code: 3907 30 00

**STORAGE CONDITIONS**

The storage should be in a cool and dry place (between 5 and 30°C), 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 30°C and not lower than 5°C 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.