

# EPOXI 5512 AQUA

## TWO-COMPONENT WATER-BASED EPOXY FOR FLOORINGS

### FORMAT

Kit A+B: 12.1 kg

### PROPERTIES

Water based product

Excellent adhesion on concrete

Smooth and anti-slip finish possible

High chemical resistance

Waterproof after curing

High mechanical strength

Low odour

Easy cleaning



PRODUCTO  
AL AGUA



MUY ELEVADA  
ADHERENCIA



ALTO PODER  
PENETRACIÓN



RESISTENCIA  
QUÍMICA



GRAN  
DUREZA



BAJOS COV'S



SIN OLOR



RESISTENCIA  
AL IMPACTO



CERTIFICADO  
EN 13501-1

### PRODUCT DESCRIPTION

Two-component water-based epoxy, free of solvents and volatile organic compounds (VOC), specially formulated for protection and decoration of continuous concrete floors. With visible end of mix life due to viscosity increase. Besides having excellent adhesion on concrete, it provides excellent mechanical properties and high chemical resistance. Once cured the product is impermeable to water.

### USES/SCOPE OF APPLICATION

EPOXI 5512 AQUA should be used by professionals with experience in the application of floor coatings. It can be used as a smooth or anti-slip finish coat in medium traffic areas. 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 conditions, but 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

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

SLIP RESISTANCE reports, according to UNE-EN 16165:2022 (Reports EUP-ED16165-016 to EUP-ED16165-018).

Chemical resistance report according to EN 2812-3 and UNE EN ISO 4628 (Report EUP-RQ4628-006).

## CHARACTERISTICS

Type of resin	Epoxy / Amine		
Presentation	Component A: 9,5 kg Component B: 2,6 kg Kit A+B: 12.1 kg	(EPOXY 5512 AQUA) (EPOXY CATALYST 5510 AQUA)	
Finishing	Brilliant		
Colour	WHITE RAL chart and other colours on request		
Mixing ratio	3.7 : 1 by weight (A:B)	3 : 1 in volume (A:B)	
Solids by Weight	61%-65%		UNE-EN ISO 3251
Solids by volume	50%-53%		UNE-EN ISO 23811
Dilution	0-25% Depending on application system		
Diluent	Water		

Note: To obtain homogeneous colours, use the same production batch.

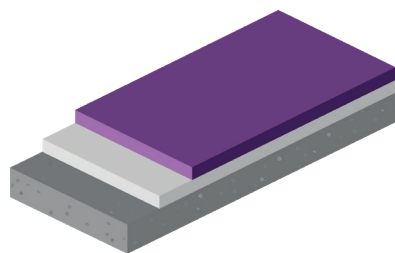
## TECHNICAL INFORMATION

Density	Mixture A + B : 1.32 ± 0.05 g/mL			UNE-EN ISO 2811-1	
Viscosity	Mixture A + B : 115 ± 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	77 mg (CS17/1000/1000)			EN ISO 7784-1	
Impact resistance	10 N-m			UNE EN ISO 6272-1	
Hardness Persoz	260 s (14 days)			UNE-EN ISO 1522	
Chemical resistance	High resistance to liquid reagents. See technical report			UNE-EN ISO 2812-3 UNE-EN ISO 4628	
Slip resistance	Painting	RD = 22 (Class 1)		UNE-EN 16155	
	Anti-slip 25% fine aggregate	RD = 45 (Class 2)			
	Anti-skid aggregate seeded	RD = 52 (Class 3)			
Lifetime	10°C	90 min	Shelf life for 1 kg of mixture A+B		
	20°C	60 min			
	30°C	45 min			
Drying time	10°C	8 h	UNE 48301 Dust drying		
	20°C	5h			
	30°C	3 h			
Repainting time		Myself		Solvent-based products	
		min	max	min	max
	10°C	18 h	5 days	24 h	6 days
	20°C	12 h	3 days	18 h	4 days
	30°C	6 h	2 days	12 h	3 days
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

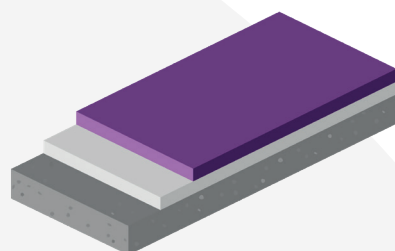
### PAINTING



	PRODUCT	PERFORMAN-	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

(\*) EPOXI 5512 AQUA diluted up to 25% can also be used as a primer.

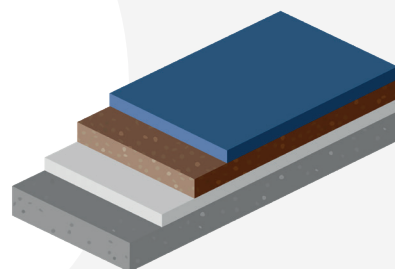
### MIXED NON-SLIP



	PRODUCT	PERFORMAN-	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 5511 AQUA	0.1-0.2 kg/m2	1 o 2	40-75 microns
FINISH	EPOXI 5512 AQUA + ARENA DE CUARZO 0.6 mm mezclados en proporción 1:0.25	0.2-0.3 kg/m2 of mixture	1 o 2	80-150 microns
TOTAL		0.3-0.6 kg/m2	2 o 3	120-225 microns

(\*) EPOXI 5512 AQUA diluted up to 25% can also be used as a primer.

### ANTI-SLIP SEEDED



	PRODUCT	PERFORMAN-	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 5511 AQUA	0.2-0.5 kg/m2	1 o 2	75-200 microns
SPOLVOREO	Arena de cuarzo 0.6 mm	2-3 kg/m2	-	1-1.5 mm
SEALING	EPOXI 5512 AQUA	0.4-0.6 kg/m2	1 o 2	150-200 microns
TOTAL		2.6-4.1kg/m2		1.2-2.4 mm

(\*) EPOXI 5512 AQUA diluted up to 25% can also be used as a primer.

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: 10°C to 35°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 < 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/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.

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 for 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 anti-skid thin coat finish, mix with the appropriate proportion of sand and apply with a short nap roller in two directions.

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-334

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 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.