



PROTEK EPOXI PRIMER 5511 AQUA (PAVIMENTOS)

WATER-BASED TWO-COMPONENT EPOXY FOR PRIMING AND SEALING FLOORING

SALES FORMAT

Kit A+B: 12.1 kg

PROPERTIES

- Water-based product
- Can be used as both a primer and a topcoat
- Excellent adhesion to concrete
- High penetration into concrete
- High transparency
- Waterproof once cured
- High mechanical strength
- Low odour



PRODUCTO
AL AGUA



MUY ELEVADA
ADHERENCIA



ALTO PODER
PENETRACIÓN



ALTA
TRANSPARENCIA



RESISTENCIA
QUÍMICA



GRAN
DUREZA



BAJOS COV'S



SIN OLOR



CERTIFICADO
EN 13501-1

PRODUCT DESCRIPTION

A two-component, water-based epoxy paint, free from solvents and volatile organic compounds (VOCs), specially formulated for the protection and decoration of continuous concrete floors. A transparent product with high flow and excellent penetration into the substrate. EPOXI PRIMER 5511 AQUA can be used as a primer and as a topcoat.

USES/SCOPE OF APPLICATION

EPOXI PRIMER 1311 SD must be used by professionals with experience in applying floor coatings. The product is designed for use as a primer for cement and concrete and can be used to reinforce floors in poor condition. It offers greater resistance to substrate moisture than traditional solvent-based products. Suitable for use in car parks, industrial units, workshops, warehouses, production areas, laboratories, retail premises, etc. The product is suitable for use outdoors, but when left uncoated its aesthetic properties may be affected by solar radiation (colour changes and/or chalking), although this does not affect the flooring's performance.

Observe the pot life of the mixture. Once this time has elapsed, the product loses its performance properties and any leftover material must be discarded. Prepare only the quantity required for application within this timeframe.

REPORTS AND CERTIFICATES

- Fire classification for flooring: Bfl-s1 in accordance with standard EN 13501-1
- Certificate of compliance with Directive 2004/42/EC on the maximum content of VOLATILE ORGANIC COMPOUNDS in paints and varnishes

FEATURES

Resin type	Epoxy / Amine	
Introduction	Component A: 9.5 kg / 3.7 kg (EPOXI PRIMER 5511 AQUA) Component B: 2.6 kg / 1 kg (EPOXY HARDENER 5510 AQUA) Kit A+B: 12.1 kg / 4.7 kg	
Finish	Glossy	
Colour	Slightly yellowish / Transparent	
Mixing ratio	3.7 : 1 by weight (A:B) 3 : 1 by volume (A:B)	
Solids by Weight	63–67%	UNE-EN ISO 3251
Volume solids	51–55%	UNE-EN ISO 23811
Dilution	Depending on the application (0–10%)	
Diluents	Water	

Note: To ensure consistent colour, use products from the same production batch.

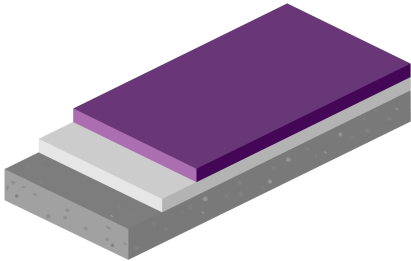
TECHNICAL INFORMATION

Density	A + B mixture: 1.32 ± 0.05 g/mL	UNE-EN ISO 2811-1
Viscosity	A + B mixture: 115 ± 10 KU	UNE 48076
Volatile organic compound (VOC) content	Maximum EU-permitted value: 140 g/L	Directive 2004/42/II A (j)
Tensile adhesion	3.4 N/mm² (concrete failure)	UNE-EN 13892-8
Abrasion resistance	77 mg (CS17/1000/1000)	EN ISO 7784-1
Impact resistance	13.5 N·m	UNE EN ISO 6272-1
Persoz hardness	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
Service life	10°C 90 mins 20°C 60 mins 30°C 45 mins	Pot life for 1 kg of A+B mixture
Drying time	10°C 8 h 20°C 6 h 30°C 3 h	UNE 48301 Powder coating
Recoating interval	On its own min max 10°C 18 h 5 days 20°C 12 h 3 days 30°C 6 h 2 days	Solvent-based products min max 24 h 6 days 18 h 4 days 12 h 3 days
Traffic resistance	Pedestrian Traffic Light Traffic 10°C 3 days 7 days 20°C 24 hours 4 days 30°C 18 hours 3 days	Fully cured 14 days 7 days 5 days

Note: The times given are approximate and may vary depending on environmental conditions and the thickness of the applied coat.

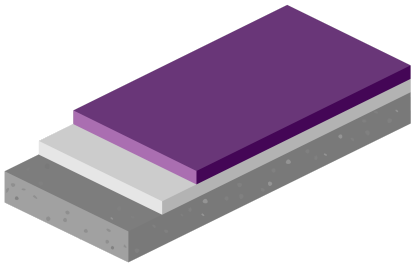
APPLICATION SYSTEMS

PAINT 1



	PRODUCT	YIELD	COATS	THICKNESS
PRIMER	EPOXY 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

PAINT 2



	PRODUCT	YIELD	COATS	THICKNESS
PRIMER	EPOXY PRIMER 5511 AQUA	0,1-0,2 kg/m2	1 o 2	40-75 µm
FINISH	EPOXY PRIMER 5511 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
(*) The product can be left as a clear varnish or given a coloured finish				

Note: These figures are theoretical and do not take into account additional material consumption due to porosity, roughness, wastage, etc.

APPLICATION PROCESS

ENVIRONMENTAL CONDITIONS

Application temperature: 10°C to 30°C. Maximum relative humidity of 80 per cent. Do not apply if rain is forecast or during periods of peak solar radiation. The temperature of the substrate and the ambient air must be at least 3°C above the dew point during application to prevent condensation.

PREPARATION OF THE SUBSTRATE

The surface must be clean, sound, dry, free from dust or salts, without efflorescence, loose or poorly bonded parts, or any type of grease, oil or contamination that could interfere with the adhesion of the system. The surface must be prepared using specialised machinery: a milling machine, sander or diamond grinder, depending on the condition of the substrate. This must be followed by thorough brushing and vacuuming. The sanding or shot-blasting process must leave a surface with sufficient porosity to allow the paint to bond properly. Any materials in poor condition must be completely removed, and cracks and damaged areas must be repaired until a sound, dry and clean substrate is achieved. Expansion joints must be left intact and properly sealed with elastomeric material. If necessary, use levelling or repair mortars to level the surface.

SUBSTRATE CONDITIONS

Substrate must be dry with a moisture content of < 5 % as measured by a CM moisture meter. There must be no rising damp as measured using the polyethylene sheet method (ASTM E1907). Allow cement mortars to cure completely (minimum 28 days). Concrete substrates must have a compressive strength of over 25 N/mm² and a tensile strength of over 1.5 N/mm².

PRODUCT PREPARATION

Stir using low-speed mechanical means (300–400 rpm) until the product and its catalyst are thoroughly homogenised. Mix component A, add component B whilst stirring, and continue stirring for 3 minutes. To ensure consistency, return part of the mixture to the Component B container, homogenise, return it to the mixing container and homogenise again. Adjust the viscosity with water according to environmental conditions and the application process. Stir periodically to homogenise the product. Take note of the pot life to ensure you do not prepare more product than can be used within that time. Once the pot life has elapsed, the product loses its properties and must be discarded. The end of the pot life is indicated by an increase in viscosity. Partial mixing by weight or volume is not recommended.

PRODUCT APPLICATION

It can be applied by brush, roller or airless spray gun. Ensure that continuous, pore-free coats are formed by applying two coats or increasing the thickness per coat if necessary. The applied product must be protected from moisture and condensation for at least 24 hours. 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 with a brush, short-pile roller, rubber squeegee or airless spray gun fitted with a nozzle suitable for high-viscosity products. For application by brush, roller or spray gun, dilute with up to 10 per cent water.

The maximum pot life must be observed, depending on the temperature. Once the pot life has elapsed, the product may still have a viscosity suitable for application, depending on the dilution used; however, both its physical and chemical properties will have changed, so any remaining mixture must be discarded. These changes in performance are visible as a loss of gloss once dry and may affect adhesion, chemical resistance, hardness and impact resistance, amongst other properties. Only prepare the amount of product that can be applied within the pot life.

CLEANING OF TOOLS

The tools used must be cleaned with water immediately after use.

ADDITIONAL INFORMATION

HEALTH AND SAFETY

For any information regarding safety issues relating to the use, storage, transport and disposal of waste from this product, users should consult the labelling and the latest version of the product's Safety Data Sheet, which contains information on the product's safety, environmental impact and toxicology.

Safety Data Sheet: MSDS-333.

LER CODE: 08 01 11.

WASTE: HAZARDOUS

TARIFF HEADING

TARIC code: 3209 90 00

STORAGE CONDITIONS

The product must be stored in a cool, dry place (between 5 and 30°C), in its original, tightly sealed and undamaged packaging, protected from frost and direct sunlight. The product will remain stable in its original, unopened containers, at ambient temperatures not exceeding 30°C or falling below 5°C, for 12 months from the date of manufacture.

LEGAL NOTICE

The technical information contained in this document is provided in good faith, based on laboratory tests and practical experience under normal conditions. However, the data may vary, particularly when the material is tinted or when using intense colours, in which case parameters such as density or solids by volume may be affected without compromising the product's performance. Users are advised to verify the suitability of the product for their specific application and to request the relevant colour safety data sheet from their distributor for reference.

