PROTEK POLIURETANO 2512 (PAVIMENTOS)

TWO-COMPONENT POLYURETHANE FOR THE PROTECTION AND DECORATION OF FLOORING

SALES FORMAT

Kit A+B: 5 and 15 kg (BASES: 0.75, 4 and 15 L)

PROPERTIES

- Excellent hardness and elasticity
- Weather-resistant
- Abrasion-resistant
- Impact-resistant
- Excellent adhesion
- Does not yellow
- Long pot life
- Dust-proof

PRODUCT DESCRIPTION

Two-component polyurethane, based on hydroxyacrylic resins, aliphatic isocyanates and pigments that are lightfast and weather-resistant. Upon curing, it forms a hard, glossy film with high elasticity and excellent adhesion. It offers exceptional resistance to atmospheric agents, lubricating oils, solvents and aggressive chemicals.

USES/SCOPE OF APPLICATION

POLYURETHANE 2512 must be used by professionals with experience in applying floor paints. The product is designed for the protection and decoration of concrete floors. It can also be used as a topcoat on other materials such as cement or previously primed metals. Suitable for use in car parks, industrial buildings, workshops, warehouses, production areas, etc. The product is weather-resistant and does not yellow or chalk outdoors.

REPORTS AND CERTIFICATES

- Fire classification for flooring: A2fl-s1 in accordance with standard EN 13501-1
- Report OTEC-08034 in compliance with standard UNE 48271 Type 2
- Certificate of compliance with Directive 2004/42/EC on the maximum content of VOLATILE ORGANIC COMPOUNDS in paints and varnishes
- SLIP RESISTANCE reports, in accordance with standard UNE-EN 16165:2022 (Reports EUP-ED16165-012 and EUP-ED16165-013)
- Chemical resistance report in accordance with standards EN 2812-3 and UNE EN ISO 4628 (Report EUP-RQ4628-004)
- External report on SLIP RESISTANCE with OM-130BE, in accordance with standard UNE 41901:2017 EX (Report No. 078004)

FEATURES

Resin type	Hydroxylated acrylic + polyisocyanate	
Introduction	Component A: 4 and 12 kg (POLYURETHANE 2512) | Component B: 1 and 3 kg (CATALYST PU 2510) Kit A+B: 5 and 15 kg (BASES: 0.75, 4 and 15 L)	
Finish	Gloss, Satin and Matte	
Colour	White and RAL colour chart. Tinting bases for the tkromatic system	
Mixing ratio	4:1 by weight (A:B) 3:1 by volume (A:B)	
Solids by Weight	57–61%	UNE-EN ISO 3251
Volume solids	42–46%	UNE-EN ISO 23811
Dilution	5–20%, depending on the application method	
Thinner	POLYURETHANE SOLVENT 310, SPECIAL PU SOLVENT 315	

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

TECHNICAL INFORMATION

Density	A + B mixture: 1.20 ± 0.05 g/mL	UNE-EN ISO 2811-1
Viscosity	A + B mixture: 70 ± 10 KU	UNE 48076
Volatile organic compound (VOC) content	Maximum EU-permitted value: 500 g/L	Directive 2004/42/II A (j)
Tensile adhesion	ND	UNE-EN 1542
Abrasion resistance	38 mg (CS10/1000/1000)	EN ISO 7784-1
Impact resistance	>19 N·m	UNE EN ISO 6272-1
Persoz Hardness	240 s (28 days)	UNE-EN ISO 1522
Chemical resistance	High resistance to liquid reagents. Please refer to the technical report	UNE-EN ISO 2812-3 / UNE-EN ISO 4628
Slip resistance	Paint: RD = 16 (Class 1) | Anti-slip with 20% fine aggregate: RD = 63 (Class 3)	UNE-EN 16155
Service life	10°C 6 h 20°C 4 h 30°C 3 h	Pot life for 1 kg of A+B mixture
Drying time	10°C 6 h 20°C 4 h 30°C 3 h	UNE 48301 Powder coating

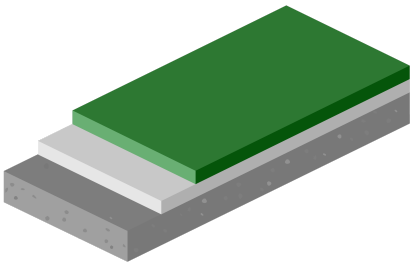
Recoating time		On its own	Other Polyurethane
	min max		min max
	10°C 30 h 7 days		30 h 3 days
	20°C 16 h 7 days		16 h 3 days
	30°C 12 h 7 days		12 h 3 days

Traffic resistance		Pedestrian traffic	Light traffic	Full cure
	10°C	48 h	7 days	14 days
	20°C	18 h	3 days	7 days
	30°C	12 h	48 h	5 days

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

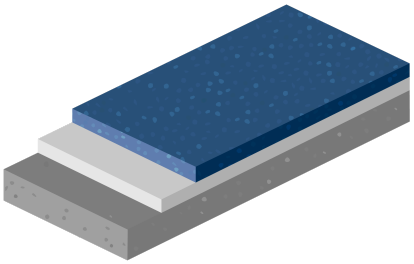
APPLICATION SYSTEMS

PAINT



	PRODUCT	YIELD	COATS	THICKNESS
PRIMER	EPOXY PRIMER 1511	0,1-0,2 kg/m2	1 o 2	40-80 micras
FINISH	POLYURETHANE 2512	0,1-0,2 kg/m2	1 o 2	50-100 micras
VARNISHING	POLYURETHANE VARNISH 2113 GLASS (*)	0,1 kg/m2	1	50 micras
TOTAL		0,3-0,5 kg/m2	1 o 2	90-230 micras
	(*) Optional protection to facilitate maintenance			

MIXED ANTI-SLIP COATING



	PRODUCT	YIELD	COATS	THICKNESS
PRIMER	EPOXY PRIMER 1511	0,1-0,2 kg/m2	1 o 2	0,1-0,2 mm
FINISH	POLYURETHANE 2512 + QUARTZ SAND 0.2–0.4 mm mixed in a ratio of 1:0.2	0,2-0,3 kg/m2 de mezcla	1 o 2	0,1-0,2 mm
TOTAL		0,3-0,5 kg/m2	2 o 3	0,2-0,4 mm

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

APPLICATION PROCESS

ENVIRONMENTAL CONDITIONS	Application temperature: 10ºC to 35ºC. Maximum relative humidity of 80%. Do not apply if rain is forecast or during periods of peak solar radiation. The temperature of the substrate and the ambient temperature must be at least 3ºC 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. On excessively polished surfaces, sand to open the pores. 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.
SUPPORT CONDITIONS	Substrate must be dry with a moisture content of < 4 % 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, mix thoroughly, return it to the mixing container and mix thoroughly once more. Take the pot life into account so as not to 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. Partial mixing by weight or volume is not recommended. Stir periodically to homogenise the product. Allow a curing time of 10 to 20 minutes before application. Adjust the viscosity with a suitable solvent depending on the ambient conditions and the application process.
PRODUCT APPLICATION	Can be applied by brush, roller, airbrush or airless spray gun. Ensure a continuous, pore-free finish 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. Failure to do so will require sanding and repainting. For application by brush or roller, dilute with 5–10% of a suitable solvent. For application by airbrush, dilute to a viscosity of 28–32 seconds on the Ford N-4 Cup using 10–20% solvent. For application by airless spray gun, dilute to a viscosity of 60 seconds on the Ford N-4 Cup using 5–10% solvent.
CLEANING OF TOOLS	Tools used must be cleaned with solvent immediately after use. Suitable solvents: POLYURETHANE SOLVENT 310, SPECIAL PU SOLVENT 315, UNIVERSAL SOLVENT 302

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 Safety Data Sheet (SDS) for this product, which contains information on the product's safety, environmental impact and toxicology.

Safety Data Sheet: MSDS-409.

EWC CODE: 08 01 11*.

WASTE: HAZARDOUS

TARIFF HEADING

TARIC code: 3208 90 91

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 is 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 set out in this document, as well as the recommendations regarding the application and use of the product, are provided in good faith, 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 presented in each specific application is not guaranteed. The product user must carry out suitability tests in accordance with the product's end use. Users must be aware of and use the most recent version of the product's technical data sheets and safety data sheets.