EPOXI 3D 1341 SD

100% SOLIDS EPOXY VARNISH FOR DECORATIVE 3D FLOORINGS

FORMAT

Kit A+B: 11 kg

PROPERTIES

Solvent-free, 100% solids
Completely colourless
High resistance to yellowing
Excellent adhesion
High hardness and elasticity
Resistant to chemicals and cleaning agents
Abrasion and impact resistant
Applicable up to 3mm in one coat

PRODUCT DESCRIPTION

Two-component transparent self-levelling epoxy varnish for the protection and decoration of multilayer, decorative, vinyl, coloured quartz, etc. floors. Designed as a transparent protective finish on decorative designs and floors with 3D effect.

USES/SCOPE OF APPLICATION

EPOXI 3D 1341 SD should be used by professionals with experience in the application of paints for floors. It is a product for interior use, suitable for decorative flooring due to its high transparency and self-levelling capacity. It should be used on clean and dry substrates in well-ventilated rooms.

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.

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

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

CHARACTERISTICS

Type of resin	Crystallisation resistant epoxy resins	
Presentation	Component A: 7 kg Component B: 4 kg Kit A+B: 11 kg	(EPOXY 3D 1341 SD) (EPOXY CATALYST 3D 1340 SD)
Finishing	Brilliant	
Colour	Colourless / Transparent	
Mixing ratio	1.67 : 1 by weight (A:B)	1.46 : 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 : 1.10 ± 0.05 g/mL	UNE-EN ISO 2811-1
Viscosity	Mixture A + B : 600 ± 200 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	ND	UNE-EN 1542
Abrasion resistance	ND	EN ISO 7784-1
Impact resistance	ND	UNE EN ISO 6272-1
Shore hardness D	80 (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	40 min	Shelf life for 1 kg of mixture A+B
	20°C	20 min	
	30°C	10 min	
Drying time	10°C	7 h	UNE 48301 Dust drying
	20°C	5 h	
	30°C	4 h	

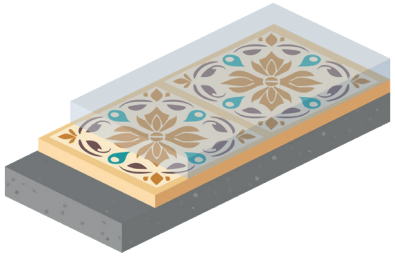
Repainting time	Myself		Solvent-based products	
	min	max	min	max
10°C	24 h	3 days	24 h	3 days
20°C	16 h	48 h	16 h	48 h
30°C	12 h	36 h	12 h	36 h

Transitability	Pedestrian Traffic	Light Traffic	Full cure
10°C	5 days	10 days	21 days
20°C	48 h	7 days	14 days
30°C	24 h	4 days	7 days

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

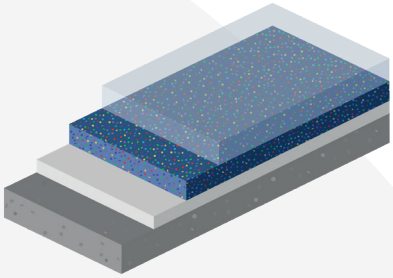
APPLICATION SYSTEMS

3D PAINTING



	PRODUCT	RDTO.	LAYERS	THICKNESS
FINISH	EPOXI 3D 1341 SD (1 mm por cada kg/ m2)	0.5-3 kg/m2	1	0,5-3 mm

PAINTING WITH DECORATIVE AGGREGATES



	PRODUCT	RDTO.	LAYERS	THICKNESS
PRIMING	EPOXI PRIMER 1311 SD	0.2-0.3 kg/m2	1 o 2	0.2-0.3 mm
SPOLVOREO	Áridos decorativos coloreados	2-3 kg/m2	-	1-1.5 mm
SEALING	EPOXI 3D 1341 SD (1 mm por cada kg/ m2)	1-3 kg/m2	1 o 2	1-3 mm
TOTAL		3.2-6.3 kg/m2		2,2-4,8 mm

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

Note: For application on concrete floors with moisture problems, use STEAM BARRIER 1331 SD as a primer when it is to be overlaid with coloured quartz or other decoration.

IMPLEMENTATION PROCESS

ENVIRONMENTAL CONDITIONS

Application temperature: 10ºC to 30ºC.
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.

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/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.

If mixed with quartz sand, effect pigments or another solid product, the mixture can be mixed on top of component A and then component B can be added after mixing. You can also mix components A and B and add the solid on top of the mixture, which makes incorporation 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 fillers.

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 a smooth finish in a thin coat it can be applied by brush, short nap roller, rubber lip or airless spray gun with nozzle suitable for high viscosity products. For a smooth thick coat finish, the use of a notched trowel and spiked roller is recommended.

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-335

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 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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