Data Sheet

Pavaglass UV/E

Solvent-free transparent formulation low thickness - glossy

Composition

Medium Pot-Life solvent-free two-component transparent epoxy formulation for roller or spatula application at low thickness.

Fields of application

Transparent, glossy coating with low thickness of less than 1 mm on decorative surfaces; dust- and oil-proof; light-weight, chemical-resistant rubberised transit vehicle. Antibacterial and disinfectable. Operating temperature -10° C. to +40° C.

Marking

CE EN 13813

EN 13813

Flooring - Screeds and screed materials - Properties and requirements

- wear resistance (AR0,5)
- compressive strength (C50)
- flexural strength (F20)
- grip strength (B2,0)
- impact resistance (IR10)
- emission of corrosive substances (SR).

Certifications

LEED compliance for low emitting materials, EQ Credit 4.1-4.2-4.3, reduction of the emission of pollutants (VOC) inside buildings.

Quality

The product undergoes careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled.

Technical specifications	Results	Method
Catalysis ratio	100 parts by weight of Base with 62 parts by weight of Reagent. All Pava formulations must be mixed thoroughly before proceeding to the various application steps. Manual mixing is not permitted; incorrect mixing will result in incomplete curing of the coating. Premix with propeller/shovel mixer component A (Base) and then add the second component B (reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous as density and chromaticity. Combine the different components, taking care to mix thoroughly by stirring at low speed in order to obtain a homogeneous colour mixture. It is recommended to take particular care when mixing all the mixture within the individual components; with the help of a spatula/knife scoop out the product from the walls/bottom of the pot in order to maintain the catalysis ratios.	13 IST 21
Specific Weight	A 1,13 – 1,20 g/cm³ (*) B 1,02 – 1,08 g/cm³ (*) 1,06 - 1,12 g/cm³ at 20 ± 2 °C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	99 (±1) %.	ASTM D 2369 EN ISO 3251

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Viscosity at 25 ± 2°C	A 2600 – 3900 mPa s. (*) B 672 – 1008 mPa s. (*) 2000 - 3000 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	Depending on the needs and environments where it is applied: with ethyl alcohol (food grade), clear alcohol or epoxy thinner (for other uses). The percentage can vary from 30% to 100% depending on the porosity and absorption of the substrate for roller applications. For spatula applications, dilute 10% to 15% if applied to smooth substrates, pure or diluted up to 5% if applied to rough substrates.	13 IST 21
Mixing duration	Pot-life 50 - 70 minutes at + 20 ±2°C.	13 IST 22 EN 9514
Drying and curing	To the touch after 6 to 7 hours at 20 ± 2 °C and 50 ± 10 R.H. Film hardening 4 to 8 days, depending on temperature. Tendency to matting and clouding at low temperatures (< 15° C) and high R.H. (> 70%).	ASTM D 1640 EN ISO 866
Covering	After 10 - 18 hours depending on temperature, no longer than 48 hours. Compatibility and overcoatability, consult Technical Department.	ASTM D 1640
Consumption and Yield	Theoretical for each layer 0.100 - 0.150 kg/m^2 at a thickness of 60 - 80 µm, may vary depending on the substrate to which it is applied.	13 IST 03
Film Appearance	Glossy, transparent; very slight yellowing due to UV exposure and with wear and ageing.	-
Number of layers	One or more layers depending on the thickness of the film required. At high thickness it may not be perfectly transparent.	-
Tool washing	With nitro thinner.	-
Warehouse storage	12 months from the date of manufacture (lot no. on the label with AAMMGG) in the original, tightly closed packaging in a dry, ventilated place at room temperature. Do not expose packaging to direct sunlight. Protect against frost.	-

The system is not self-supporting according to UNI10966, but conditioned by the substrate; the specimens made not with film but according to UNI EN 13892-2. Results after 7 days at 25 ± 2°C.

Iron Adhesion (MPa) ASTM D 4541 EN 1542	> 1,5
Abrasion 1Kg 1000rpm ASTMD4060 EN ISO 5470/1	< 50 mg
Reaction to fire EN 13501-1	B_{fl}-s1
Shore Surface Hardness EN ISO 866	> 98 A
Elongation Break (%)	1,8 ± 0,4%

(*) Technical specification in the certificate of analysis

Surface preparation

Perfectly clean the surface, which must be sound, seasoned, dry and sufficiently rough (possible sanding).

Any imperfections or irregularities that may compromise the final aesthetic effect must be corrected by sanding and/or smoothing the substrate before applying the subsequent products.

In the presence of cracking processes and/or crazing in the substrate, carefully check the nature of these phenomena: whether they are due to plastic shrinkage, and whether they are due to tensional-structural phenomena affecting the substrate itself. In the case of both static and dynamic fissures/cracks, consult our Technical Department in order to intervene appropriately. No responsibility can fall on the product in the event that such cracking processes affect it since, according also to UNI EN 10966, such systems are not self-supporting.

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Any traces of oil, grease, paint, efflorescence, etc. must be removed beforehand, as must any chalking or removable sections.

Before proceeding with the application of Pava products, the preliminary treatment of all critical points (any cracks in the substrate, corners, edges, vertical lapels, expansion and/or structural joints, channels, gutters, grates, eaves fittings, drainage gutters and downpipes, steps and thresholds, skylights, plant pipes and through-bodies) is mandatory.

Application

By brush, roller or at temperatures not below + 10°C.

Colours and packs

Transparent version available in the following packages:

Base kg. 0,550 + Reag. kg. 0,335 = total kg. 0,885 A+B

Base kg. 2,740 + Reag. kg. 1,675 = total kg. 4,415 A+B

Base kg. 5,480 + Reag. kg. 3,350 = total kg. 8,830 A+B.

Warnings

We do not recommend the use of products that, upon opening the container, should show signs of instability and/or degradation including thickening, crystallization, gelatinization, sedimentation, flotation, etc. due to improper storage of the material (temperature/humidity) either during transport or in the final storage or finally for use after the expiration date

It is highly recommended that, before using Pava products, you attend the applicator course. Anyone who uses these products without being licensed to do so does so at his or her own risk and without the responsibility of the manufacturer.

Technical Notes

With damp substrates or with counterthrust moisture ≥ 4% (measured with calcium carbide), blistering, blistering or detachment of the applied layers is possible.

In these cases, it is possible to manage the problem through the prior application of Trico Bar with a vapor brake function. Such a product should be applied in 2 coats for a total consumption of at least 1.5 kg/sqm. Consult the product's technical data sheet and the Technical Office for appropriate indications.

UNI Standard 11835

The UNI 11835 standard, in force since 2021, defines and certifies the figure of the applicators and commercial technicians of resin systems for horizontal and vertical interior and exterior surfaces, outlining their basic requirements, the set of knowledge, skills, autonomy and responsibilities that within the construction supply chain must distinguish and characterize these professional figures in their relations with public and private clients, companies, designers and specifiers.

The UNI 11835 standard incorporates the knowledge introduced by the new edition of the UNI 10966 standard and profiles the sector's operators more precisely, highlighting the sector's typical features. In addition, the standard delineates resin systems operators by dividing them into four professional figures (specialized resin systems installer, foreman resin systems installer, foreman decorative resin systems installer, and sales technician). For each professional figure, the relevant tasks are described, as well as the knowledge and skills required to perform them.

The field of resin coatings therefore requires, as described above, competence and professionalism. These can be certified according to UNI CEI EN ISO/IEC 17024 through a patent obtained through an exam (written, practical and oral test) taken with a third-party certified body, as defined by UNI 11835.

It is strongly recommended to join professionalizing activities in order to acquire the professional qualification license so as to possess the competences and skills listed in the prospectuses of the aforementioned UNI 11835 standard, which can be associated with level 4 as per the QNQ classification (Recommendation 2017/C189/03, Annex II). Therefore, no responsibility can fall on the manufacturer in case the operator is not in possession of the qualification license and the consequent validated skills, in case of improper use or flaws in the works carried out, as the products must be intended for strictly professional use.

Product for professional use

Keep out of the reach of children. During use and drying, ventilate the premises well. Do not eat, drink or smoke during use. Wear protective gloves and goggles during use and use the usual precautions for handling chemicals. In case of contact with eyes or skin wash immediately with plenty of water and seek medical advice. In case of ingestion contact a poison control center or doctor immediately. Air the premises before staying there.

The above products are found to have a low environmental impact and make it possible to abate solvent pollution while improving quality, safety and hygiene for the user. We recommend scrupulous compliance with the hygiene regulations in use for handling resins (Circ. Min. Lav. 46/1979 and 61/1989). For info ns safety data sheet.

QR-CODE

The label of each product shows the relevant QR-CODE for viewing and downloading the data sheet. In case of failure to download, please contact the Technical Department.

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