Data Sheet

Pava 100®

Solvent-free epoxy adhesion promoter

Composition

Solvent-free modified two-component epoxy formulation with medium pot-life and high wetting power.
VOC lim 350 g/l - real VOC < 30 g/l (excluding water).

Fields of application

Adhesion promoter and consolidating agent for cement, gypsum or lime-based substrates; used with suitable thinner.

Marking

EN 13813

Floors - Screeds and screed materials - Properties and requirements

- adhesion strength (B2,0)
- impact strength (IR4)
- emission of corrosive substances (SR).

Certifications

- Fire rating class Bfl-S1 (EN 13501-1).
- Conforms with Chapter 21 Code of Federal Regulations - Repeated Food Contact.
- Product able to inhibit bacterial growth according to ISO 22196:2011.
- EPA (Environmental Protection Agency) certified for ultra-low emissions, according to EN-ISO 16000 and AgBB "Evaluation procedure for VOC emissions from construction products" Report nr. 162477-002, 19/01/2017.
- 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	Mix 100 parts by weight of Base with 50 parts by weight of Reagent. All Pava formulations must be thoroughly mixed before proceeding with the various application steps. Manual mixing is not permitted; incorrect mixing will result in incomplete curing of the coating. Pre-mix component A (Base) with a propeller/shovel mixer, then add the second component B (Reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous in density and colour. Combine the different components, taking care to mix thoroughly by mixing at low speed in order to obtain a homogeneous colour mixture. It is recommended to take particular care in mixing all the mixture within the individual components; with the help of a spatula/knife, scoop the product from the walls/bottom of the jar in order to maintain the catalysis ratios.	13 IST 21
Specific Weight	A 1,09 – 1,16 g/cm³ (*) B 0,98 – 1,04 g/cm³ (*) 1,06 - 1,12 g/cm³ at 20 ± 2 °C.	ASTM D 1475 EN ISO 2811-1

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High Solid Content	100 (± 1%)	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	A 945 – 1418 mPa s. (*) B 2358 – 3537 mPa s. (*) 700 - 1500 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	At 50% - 100% in 99° ethyl alcohol or a suitable thinner depending on the requirements of the substrate and the degree of viscosity.	13 IST 21
Mixing duration	Pot-life 60-80 minutes at + 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Dry to the touch after 8 to 10 hours at 20 ± 2°C. Film curing: 4 to 6 days, depending on temperature.	ASTM D 1640 EN ISO 866
Covering	Within 24 to 48 hours depending on ambient temperature. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	(theoretical) as adhesion promoter 0.100 - 0.150 kg/m^2 depending on the characteristics of the substrate.	13 IST 03
Film Appearence	Glossy, transparent tending to brown (low UV resistance).	-
Number of layers	One layer as adhesion promoter on compact and cohesive substrates. Two layers on highly absorbent substrates. Always consider adding a suitable thinner to modify the viscosity of the mix.	-
Tool washing	With appropriate thinner until the formulation is fresh.	-
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 and at an ambient temperature of not less than +10°C. Do not expose packaging to direct sunlight. Protect against frost Transport must not take place below 10°C. Otherwise the lorry must be insulated.	-

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.

Cls Adhesion (MPa) ASTM D 4541 EN 1542	> 3,0
Iron Adhesion (MPa) ASTM D 4541 EN 1542	> 6,0

(*) Technical specification in the certificate of analysis

Surface preparation

Properly prepare the substrate by mechanical or manual abrasion, sanding or shot-blasting. Remove all loose parts by reconstructing any missing volumes with suitably filled resin mixtures. Carefully dust the surface and apply a specific adhesion promoter according to the nature of the substrate. Any imperfections or irregularities that may compromise the final aesthetic effect must be corrected by mechanical preparation and/or regularisation of the substrate before applying the subsequent products.

Traces of oil, grease, paint, efflorescence, etc. must always be carefully removed in advance, as well as chalking or removable portions. In the presence of cracking processes and/or crazing in the substrate,

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

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 Conditions

We recommend applying the product at temperatures ≥ 10°C and ≤ 35°C and Relative Humidity ≤ 70%. Application under different environmental conditions could lead to aesthetic and/or technical defects of various kinds and failure to achieve the product's characteristics and performance. Consult the Technical Department in case of special situations.

Application

By brush, roller, spray (roller is preferable).

Colours and Packs

Transparent, available in the following packages: Base kg. 3,330 + Reag. kg. 1,670 = total kg. 5,000 A+B Base kg. 6,660 + Reag. Kg. 3,340 = total kg. 10,000 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.

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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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