

Pava Lavasteen®

High-strength two-component decorative formulation
with
carbon

I LINEA PAVAFLOOR I

Composition

A water-based two-component 'techno-cycle resource' technology formulation based on nano-polymers and moissanite-like minerals, which has a high gloss and light dispersion index. This gives the material a special decorative effect that is unalterable over time and guarantees a Mohs hardness second only to that of diamond.

Raw materials in view of the LCA (Life Cycle Assessment) are sourced from certified national and/or European suppliers and do not contain formaldehyde, free bisphenol, alkylpoliphenols and nonylphenols. VOC Water-base limit 140 g/l - real VOC inf. 25 g/l.

Fields of application

An ideal solution for the creation of continuous floor and wall coverings with low thickness. It is characterised by a fine-grained, spatulate look with a minimalist aesthetic proposal and very high mechanical resistance. In light colours it creates an original "salt and pepper" effect that fades in darker shades. Textural processing is also possible to recreate 'natural stone' styles.

Its exceptional resistance and superior durability compared to other products make it suitable for flooring private rooms and public premises such as hotels, shops, restaurants, showrooms, offices, even those with high pedestrian stress. It is also appreciated as a decorative covering for bathrooms, furniture and design elements. It also makes it possible to redevelop existing surfaces such as old tiles, after suitable preparation.

Marking

EN 1504-2

- Protective coating of concrete according to EN 1504-2, DoP nr 161223-2019 Rev1.
- protection against penetration risks (1.3)
 - humidity control (2.2)
 - physical resistance (5.1)

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

- Protective coating of concrete according to EN 1504-2, DoP nr 161223-2019, certification Factory Production Control Body nr. 0546, certificato 2017, che rilascia la marcatura CE.
- Conforms to reaction to fire class Bfl-S1 (EN 13501-1) - Pavafloor line.
- EPA (Environmental Protection Agency) certified for very low emissions, according to EN-ISO 16000 and AgBB 'Assessment Procedure for VOC Emissions from Construction Products.
- 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	NEUTRAL version: mix 850 parts by weight of Part A with 100 parts by weight of Part B. To this mix add 50 parts by weight of colour. Standard coloured version: combine 900 parts by weight of Part A with 100 parts by weight of Part B. 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 hardening of the coating. Pre-mix component A with a propeller/shovel and then add the second component B 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 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. For the coloured version, it is recommended to use the complete packages. If it is necessary to divide the packages, take care to mix the entire coloured component well in order to disperse the pigments evenly. With the aid of a precision balance, then divide the components, taking care to maintain the catalysis ratios of the individual elements in order to avoid poor performance.	13 IST 21
Specific Weight	A 1,91 – 2,03 g/cm³ (*) B 1,1 - 1,2 g/cm³ (*) 1,85 - 1,95 g/cm³ at 20 ± 2°C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	88 ± 2 %.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	A 30137 – 45206 mPa s. (*) B 990-1500 mPa s. (*) 13000- 14000 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	Dilutable with clean water up to 4% for application on horizontal surfaces. Or if necessary add thickener 74xx. Ready to use for vertical applications (carry out preliminary tests).	13 IST 21
Mixing duration	Pot-life of 30 - 45 min. at + 20 ± 2° C. (mixed product).	13 IST 22 EN 9514
Drying and curing	Touch after maximum 14 hours at 20 ± 2°C, hardening 6-7 days at 20°C and 12-14 days at 10°C.	ASTM D 1640 EN ISO 866
Covering	Possible after 12/18 hours depending on temperatures and thicknesses obtained. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	Material consumption can be identified as between 0.500 - 0.900 kg/m ² per shot depending on the condition of the substrate and the desired decorative effect.	13 IST 03
Film Appearance	Opaque.	-
Tool washing	Tools can be easily cleaned with lukewarm water and/or solvent before curing.	-
Warehouse	12 months from the date of manufacture (lot no. on the label with AAMMGG), in the original sealed packaging in a dry, ventilated place at a temperature of not less than	-

storage +10°C. 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.

Compressive strength (MPa) UNI 13892/2	> 60
Cl's Adhesion (MPa) ASTM D 4541 EN 1542	> 2,0
Elongation Break (%)	> 1,0

(*) *Technical specification in the certificate of analysis*

Surface preparation

The substrate to which the materials will be applied must be sufficiently stable and not prone to deformation; it must also be dry, dust-free and clean.

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 crazings 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 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 to UNI EN 10966, these systems are not self-supporting.

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

Application

With a smooth stainless steel American spatula with rounded corners, depending on the desired aesthetic results.

It is recommended to apply in 2 layers spaced by at least 12 hours of drying time with suitable environmental conditions. The approximate average consumption of application product per layer is approximately 0.500 kg/m² ; 0.900 kg/ m² per layer in the case of a decorative stone-like effect.

Once hardened, after sanding with 60 or 120 grit sandpaper (depending on the effect achieved) and after careful dust removal, it is recommended to protect the surface with Idropol 80 or 98 water-based polyurethane finish. Any direct application of solvent-based or high-solids products may slightly tone the colour. Carry out preventive tests before proceeding with this solution.

Colours and packs

Available in the neutral version in the following packages:

Part A kg. 8,500 + Part B kg. 1,000 = total kg. 9,500

Part A kg. 17,000 + Part B kg. 2,000 = total kg. 19,000

Available in standard colours in the following packages:

Part A kg. 9,000 + Part B kg. 1,000 = total kg. 10,000

Part A kg. 18,000 + Part B kg. 2,000 = total kg. 20,000

The product is pigmentable with water-based colouring pastes for Part A - please consult our technical department. ΔE Cielab <5.0 not binding.

The dye toner may not guarantee the exact replication of the colour chart colour due to specific application methods and environmental conditions on the construction site. Prior production of test samples is always recommended.

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 $\geq 4\%$ (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

L'etichetta di ogni prodotto riporta il relativo QR-CODE per la visualizzazione e il download della scheda tecnica. In caso di mancato download rivolgersi all'Ufficio Tecnico

The information contained in the technical data sheet is the most up-to-date information available to us on which we reserve the right to make any necessary changes; however, this information must be considered as having no binding force and does not prove any legal contractual relationship or accessory obligation with the purchase contract. Since the use of the product also takes place outside of our control, responsibility for the incorrect use of the product lies exclusively with the user and therefore does not imply the assumption of any of our warranties and responsibilities for the final result of the workings. Any warranty statement for effectiveness purposes requires express and specific written confirmation by Pava Resine Srl. They also do not dispense the customer from the exclusive duty and responsibility of verifying the suitability of our products for their intended use and purposes; moreover, the customer is required to verify that the values given in the data sheet are also valid for the batch of product of his interest and are not superseded and/or replaced by later editions. This data sheet cancels and replaces the previous ones. For the rest, please refer to our General Terms and Conditions of Supply, in particular also regarding liability for any defects. Our General Terms and Conditions of Supply are available on our website at www.pavaresine.com

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