

Pava Kwartsiet®

Two-component, high-strength, fine-grained decorative formulation

I LINEA PAVAFLOOR I

Composition

Water-based two-component 'techno-cycle resource' technology formulation based on nano-polymers and allochromatic minerals with high scratch resistance.

Life Cycle Assessment (LCA) raw materials are sourced from certified national and/or European suppliers and do not contain formaldehyde, free bisphenol, alkylpoliphenols and nonylphenols, but are made from regenerated and recycled materials.

The product was developed with particular attention to aspects of environmental sustainability and circular economy.

VOC lim 140 g/l - real VOC < 25 g/l (excluding water).

Fields of application

An ideal solution for the creation of low-thickness, high-resistance continuous floor and wall coverings. It is characterised by a very trendy fine-grained spatulate look with a minimalist aesthetic effect thanks to barely noticeable nuances. With the appropriate finishing, in combination with light colours, it can also allow a veiling effect.

Its high resistance and durability make it suitable for the flooring of private rooms and public premises such as hotels, shops, restaurants, showrooms, offices, even with high pedestrian traffic. 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 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)

The formulation is colourable with specific Pava tinting system.

Certifications

- Protective coating of concrete according to EN 1504-2, DoP nr 161222-2019, Factory Production Control Body certification nr. 0546, certificate 2017, issuing CE marking.

- 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: combine 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. 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/blender 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. Particular care should be taken when 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. For the coloured version, it is recommended to use the complete packages. If it is necessary to divide the packages, take care to mix all the coloured component well to disperse the pigments evenly. Then, with the help of a precision balance, divide the components, taking scrupulous care to maintain the catalysis ratios of the individual elements, so as not to incur poor performance.	13 IST 21
Specific Weight	A 1,98 – 2,10 g/cm³ (*) B 1,11 – 1,18 g/cm³ (*) 1,99 ± 0,06 g/cm³ a 20 ± 2°C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	90 ± 2 %.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	A 32472 – 48709 mPa s (*) B 1046 – 1568 mPa s (*) 19500 ± 3900 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	Dilutable with clean water up to 4% for applications on horizontal surfaces. Ready to use for vertical applications (carry out preliminary tests). Or, if necessary, add 74XX thickener.	13 IST 21
Mixing duration	Pot-life 30 - 45 min. at + 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Touch-drying after maximum 14 hours at 20 ± 2°C, curing 6-7 days at 20°C and 12-14 days at 10°C.	ASTM D 1640 EN ISO 866
Covering	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 0.450 - 0.600 kg/m ² per application depending on the condition of the substrate and the desired decorative effect. Two coats are recommended.	13 IST 03
Film Appearance	Opaque.	-

Tool washing	Tools can be easily cleaned with lukewarm water and/or solvent before curing.	-
Warehouse storage	12 months from the date of manufacture (lot no. on the label with AAMMGG), in the original sealed packaging in a dry and ventilated place at a temperature not below +10°C. Do not expose packages directly to the sun. 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 Adhesion (MPa) ASTM D 4541 EN 1542	> 2,0
Elongation Break (%)	< 1,0

(*) *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. Dust the surface thoroughly 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 the subsequent products are applied.

Traces of oil, grease, paint, efflorescence, etc. must always be removed in advance and carefully, as well as chalking or removable portions.

In the presence of cracking processes and/or crazing in the substrate, carefully check the nature of these phenomena, assessing whether they are due to plastic shrinkage or structural-tension 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 $\geq 10^{\circ}\text{C}$ and $\leq 35^{\circ}\text{C}$ and Relative Humidity $\leq 70\%$. 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

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

It is recommended that the product be applied in 2 passes with a minimum of 12 hours drying time under suitable environmental conditions. The approximate average consumption of the product is approximately 0.500 kg/m² per layer.

After hardening, after sanding with 120 or 220 grit sandpaper and after careful dust removal, it is recommended to protect the surface with Idropol 80 or 98 water-based polyurethane finish. 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 with separate colouring pastes:

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

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. The percentage of pigment may vary from 5% to 10% depending on the desired colour shade.

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

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.

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

Data sheet nr. 921

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5 of 5