Data Sheet

Pava Art-Beton 2K®

Coarse-grained one-component pigment decorative formulation

Composition

One-component formulation based on modified copolymer synthetic resins, solvent-free and with microfibres and quartz/silica mixtures dosed in a suitable grain size curve, suitable for decorative effects on walls or floors in civil environments. Systems for water-based decorative effects

VOC lim 140 g/l - real VOC < 15 g/l (excluding water).

Fields of application

An extremely versatile coarse-grained product for interior decoration that combines high quality, excellent durability and good elasticity. It meets the requirements of creativity by allowing the realisation of cloudy spatula effects, both opaque and glossy. It also allows for general grouting on concrete, cement, marble, stone, etc.

Marking

EN 13813

Flooring - Screeds and screed materials - Properties and requirements

- wear resistance (AR1)
- grip strength (B2,0)
- impact resistance (IR10)
- emission of corrosive substances (SR)

The formulation is colourable with a specific Pava tinting system.

Certifications

- Fire certification class Bfl-S1 (EN 13501-1).
- Product capable of inhibiting bacterial proliferation according to ISO 22196:2011.
- EPA (Environmental Protection Agency) certified for very low emissions, according to EN-ISO 16000 and AgBB 'Evaluation 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.

0474/20 CERTIFICATE No. MED 213419CS

Surface materials and floor coverings with low flame-spread characteristics.

Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, according to standards of Regulation (EU) 2019/1397. Certified by Rina Services S.p.A. (Notified Body No. 0474).

ISO 17/6:2010

IMO 20/0 FTP Code Part 5

Quality

The product undergoes careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled. The product is water-based and therefore not covered by the ADR transport hazard classes.

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Technical specifications	**Results**	**Method**
Catalysis ratio	One-component. 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. For the coloured version, it is recommended to use the complete packaging. If it is necessary to split the packages, take care to mix the entire coloured component well in order to disperse the pigments evenly.	13 IST 21
Specific Weight	1.40 - 1.60 g/cm³ at 20 ± 2°C, depending on tint.	ASTM D 1475 EN ISO 2811-1
High Solid Content	77 - 85 %	ASTM D 2369 EN ISO 3251
Viscosity at 25±2°C	35000 - 45000 mPas.	ASTM D 2369 EN ISO 3251
Dilution	Ready to use.	13 IST 21
Mixing duration	Not applicable.	13 IST 22 EN 9514
Drying and curing	Drying after 4 hours at 20 ± 2°C and 50 ± 10% RH, curing after 5 - 6 hours depending on ambient conditions.	ASTM D 1640 EN ISO 866
Covering	After 20 to 24 hours depending on the ambient temperature; within 48 hours at the latest.	ASTM D 1640
Consumption and Yield	0.400 - 0.700 kg/m² depending on the condition of the substrate and application method.	13 IST 03
Film Appearence	Opaque.	-
Number of layers	One or more layers depending on the thickness and decorative effect required.	-
Tool washing	With warm water and detergent.	-
Warehouse storage	12 months from the date of production (lot no. on the label with AAMMGG), in the tightly sealed original packaging in a ventilated and dry place, if possible at an ambient temperature of not less than + 10°C. Do not expose packaging directly to the sun. 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.

Iron Adhesion (MPa) ASTM D 4541 EN 1542	> 1,5
Elongation Break (%)	< 5,0

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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 removed in advance and carefully, as well as chalking or removable portions. In the presence of cracking processes and/or crazings in the substrate, 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

Usually by means of a plastic or stainless steel spatula depending on the type of intervention; it is not advisable to apply thicknesses of more than 2-3 mm in a single application as there is a possibility of cracks being generated; it is instead advisable to plan several successive applications.

Colours and Packs

Available in the neutral version in the following packages:

kg. 5,000

kg. 10,000

Available in the coloured version (p10) in the following packages:

kg. 5,500

kg. 11,000

Pigmentable with water-based colouring pastes, consult Technical Department. ΔE Cielab <5.0 not binding.

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.

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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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