

Pavafloor H200/E

Pigmented epoxy formulate for floors

Composition

Solvent-free two-component pigmented epoxy formulation with good chemical resistance and improved mechanical strength. VOC lim. 100 g/l - real VOC < 25 g/l.

Fields of application

Coating of concrete/AC surfaces where good chemical-physical resistance is required, suitable for the transit of medium-light or medium-heavy wheeled industrial vehicles with multi-layer cycle.

The coating offers a slightly textured, glossy finish and good resistance to yellowing due to UV exposure.

Operating temperature -10° C to +40° C.

Marking

EN 1504-2

Protective coating of concrete according to EN 1504-2, PDO nr 150127-2014, Factory Production Control Body certification nr. 0546, certificate 2017, issuing CE marking.

Coating for Ingress Protection, Moisture Control, Physical Resistance and Chemical Resistance (1.3 C – 2.2 C – 5.1C – 6.1 C).



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



- Fire certification class Bfl-S1 (EN 13501-1), Report nr. 0002846, 03/10/2012.
- Product capable of inhibiting bacterial proliferation according to ISO 22196:2011, Report no. 16-7744/A.
- 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 reducing the emission of pollutants (VOC) inside buildings.

Quality



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

Technical specifications

Results

Method

Catalysis ratio

NEUTRAL version: 100 parts by weight of BASE with 27 parts by weight of Reagent.
 COLOURED version (standard colours): combine 100 parts by weight of BASE with 23 parts by weight of Reagent.
 COLOURED version (p10): combine 100 parts by weight of BASE with 24 parts by weight of Reagent.
 COLOURED version (p15): combine 100 parts by weight of BASE with 22 parts by weight of Reagent.
 COLOURED version (p20): combine 100 parts by weight of BASE with 21 parts by weight of Reagent.
 All Pava Resine 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.
 Combine the different components, taking care to mix thoroughly by stirring at low speed in order to

13 IST 21

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.

Pre-mix component A (Base) with 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.

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.

Specific Weight	1.45 - 1.65 g/cm ³ at 20 ± 2°C, depending on colour.	ASTM D 1475 EN ISO 2811-1
High Solid Content	100 (±2) % according to internal test lab mode.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	1800 - 3500 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	5 - 20 % with 99° ethyl alcohol or specific thinner.	13 IST 21
Mixing duration	Pot-life 60 - 80 minutes at + 20 ± 2°C. at 50 ± 10% R.H. (mixed product).	13 IST 22 EN 9514
Drying and curing	To the touch after 10 - 12 hours at 20 ± 2°C and 50 ± 10% R.H. Film hardening from 4-6 days, depending on temperature. Tendency to matting and clouding at low temperatures (< 10°C) and high R.H. (> 70%).	ASTM D 1640 EN ISO 866
Covering	(possible) after 24 hours - max. after 48 hours. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	(theoretical per layer) 0.200-0.300 kg/m ² at the recommended thickness of approx. 200 µm.	13 IST 03
Film Appearance	Glossy, non-slip textured finish, slight tendency to yellowing and chalking due to UV exposure, wear and ageing.	-
Number of layers	One or more layers depending on the thickness required.	-
Slip/skid resistance	Class I (wet) 30 PTV (***) - Class II (dry) 65 PTV (***) The addition of microfibres to the formulation allows the value > 40 units to be achieved even on moist surfaces. Below are the values illustrated in the standard: Class I: >40 units with wet test (damp interior surfaces), Class II: >40 units with dry test (dry interior surfaces), Class III: >55 units with wet test (outdoor) or in accordance with national regulations.	-
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 sealed packaging in a ventilated and dry place at an ambient temperature of no less than + 5°C. Do not expose packages directly to the sun. Protect from frost. Transport must take place below 10°C. Otherwise the truck 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	> 2,0
Abrasion (1Kg 1000rpm) ASTM D 4060 EN ISO 5470/1	< 29 mg
Shore Surface Hardness EN ISO 866	> 98 A
Reaction to fire EN 13501-1	B _{fl} -s1
Compressive strength (MPa) UNI 13892/2	65 ± 10
Flexural Strength (MPa) UNI 13892/2	25 ± 5
Wear resistance BCA UNI EN 13892/4	AR 0,5
Shore Surface Hardness EN ISO 866	< 1,0

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 verify the nature of these phenomena by 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, please consult our Technical Department in order to take appropriate action. No liability can fall on the product in the event that such cracking processes affect the product as, according also to UNI EN 10966, these systems are not self-supporting.

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

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

Brush, roller and airless, with temperatures not below + 15°C. As the film made is almost impermeable, bubbles or detachment may occur in the presence of moisture.

Colours and packs

Available in the NEUTRAL version in the following packages:

Base kg. 0,750 + Reag. kg. 0,200 = total kg. 0,950 B+R

Base kg. 4,870 + Reag. kg. 1,310 = total kg. 6,180 B+R

Base kg. 9,740 + Reag. kg. 2,610 = total kg. 12,350 B+R

Available in COLOURED version (standard colours) in the following packages:

Base kg. 11,390 + Reag. kg. 2,610 = total kg. 14,000 B+R

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

Base kg. 0,850 + Reag. kg. 0,200 = total kg. 1,050 B+R

Base kg. 5,490 + Reag. kg. 1,310 = total kg. 6,800 B+R

Base kg. 10,990 + Reag. kg. 2,610 = total kg. 13,600 B+R

Available in the COLOURED version (p15) in the following packages:

Base kg. 0,900 + Reag. kg. 0,200 = total kg. 1,100 B+R

Base kg. 5,790 + Reag. kg. 1,310 = total kg. 7,100 B+R

Base kg. 11,590 + Reag. kg. 2,610 = total kg. 14,200 B+R

Available in COLOURED version (p20) in the following packages:

Base kg. 0,950 + Reag. kg. 0,200 = total kg. 1,150 B+R

Base kg. 6,120 + Reag. kg. 1,310 = total kg. 7,430 B+R

Base kg. 12,240 + Reag. kg. 2,610 = total kg. 14,850 B+R

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 $\geq 4\%$ (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

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