

# Pavafloor H200/WRC

## Water-borne version pigmented epoxy formulation for floors

### Composition

Solvent-free two-component pigmented epoxy formulation with good chemical-mechanical resistance in high-dry water emulsion.

### Fields of application

Coating of concrete/AC surfaces where good chemical-mechanical resistance is required using a low-impact water emulsion formulation, carriageable for medium-light or medium-heavy rubberized transit with multilayer cycle and also applicable on vertical surfaces.

The coating possesses good resistance to yellowing due to UV exposure.

Operating temperature from -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 "Evaluation procedure for VOC emissions from construction products".
- LEED compliance for low emitting materials (low emitting materials), EQ Credit 4.1-4.2-4.3 reduction of pollutant (VOC) emission within 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

Technical specifications	Results	Method
Catalysis ratio	<p>NEUTRAL version: combine 100 parts by weight of BASE with 89 parts by weight of Reagent 'WRC'.</p> <p>COLOURED version (standard colours): 100 parts by weight of BASE with 76 parts by weight of 'WRC' Reagent.</p> <p>REAGENT WITH WATER-COLOURING PASTE Version (p10): 100 parts by weight of BASE with 108 parts by weight of Reagent 'WRC'.</p> <p>REAGENT WITH WATER-COLOURING PASTE Version (p15): 100 parts by weight of BASE with 118 parts by weight of Reagent 'WRC'.</p> <p>REAGENT WITH WATER-COLOURING PASTE Version (p20): 100 parts by weight of BASE with 127 parts by weight of Reagent 'WRC'.</p>	13 IST 21

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 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.

Premix with propeller/shovel mixer component A (Base) and then add the second component B (reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous as density and chromaticity.

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	1.48 - 1.64 g/cm <sup>3</sup> at 20 ± 2°C, depending on colour.	ASTM D 1475 EN ISO 2811-1
High Solid Content	88 – 92% Test Pava.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	3000 - 6000 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	With clean (not cold) water from 15 % to 25 % depending on the method of application.	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 maximum 14 hours at 20 ± 2 °C and 50 ± 10% R.H. Film hardening: 4 to 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 <sup>2</sup> recommended thickness of 200 µm approx.	13 IST 03
Film Appearance	Satin; slight tendency to yellowing and chalking due to UV exposure and with wear and ageing. 50-60 Gloss units at 60°.	-
Number of layers	One or more layers depending on the thickness required.	-
Tool washing	With nitro thinner.	-
Warehouse storage	12 months in the original, tightly closed packaging in an airy, dry place at an ambient temperature of at least + 5°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.*

Cls Adhesion (MPa) ASTM D 4541 EN 1542	> 2,0
Abrasion (1Kg 1000rpm) ASTM D 4060 EN ISO 5470/1	< 42 mg

Shore Surface Hardness EN ISO 866	> 98 A
Reaction to fire EN 13501-1	B <sub>fl</sub> -s1
Elongation Break (%)	< 1,5

## Surface preparation

Mechanical or manual abrasion, shot peening or bush hammering.

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 crazing 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 Department in order to intervene appropriately. No responsibility can fall on the product in the event that such cracking processes affect it since, according also to UNI EN 10966, such systems are not self-supporting.

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

Before proceeding with the application of Pava Resine products, 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 outlets and downpipes, steps and thresholds, skylights, plant pipes and through-bodies) is mandatory).

## Application

Brush, roller and airless, with temperatures not below + 10°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. 0,670 = total kg. 1,420 B+R

Base kg. 4,870 + Reag. kg. 4,350 = total kg. 9,220 B+R

Base kg. 9,740 + Reag. kg. 8,700 = total kg. 18,440 B+R

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

Base kg. 11,390 + Reag. kg. 8,700 = total kg. 20,090 B+R

REAGENT WITH WATER-COLOURING PASTES Version (p10) available in the following packages:

Base kg. 0,750 + Reag. kg. 0,810 = total kg. 1,560 B+R

Base kg. 4,870 + Reag. kg. 5,270 = total kg. 10,140 B+R

Base kg. 9,740 + Reag. kg. 10,540 = total kg. 20,280 B+R

REAGENT WITH WATER-COLOURING PASTES Version (p15) available in the following packages:

Base kg. 0,750 + Reag. kg. 0,920 = total kg. 1,670 B+R

Base kg. 4,870 + Reag. kg. 5,730 = total kg. 10,600 B+R

Base kg. 9,740 + Reag. kg. 11,460 = total kg. 21,200 B+R

REAGENT WITH WATER-COLOURING PASTES Version (p20) available in the following packaging:

Base kg. 0,750 + Reag. kg. 0,960 = total kg. 1,710 B+R

Base kg. 4,870 + Reag. kg. 6,170 = total kg. 11,070 B+R

Base kg. 9,740 + Reag. kg. 12,360 = total kg. 22,100 B+R

ΔE Cielab <5,0 non vincolante.

## 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](http://www.pavaresine.com)

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