

# Pavacoat F/E

## Low-yellowing chemical-resistant epoxy formulation - glossy

### Composition

Solvent-free, neutral or pigmentable two-component epoxy formulation with medium chemical and mechanical resistance. Glossy appearance coating for vertical surfaces with good resistance to yellowing due to UV exposure and excellent bacteriostatic properties.

### Fields of application

Thick film coating with excellent bacteriostatic properties on vertical cement surfaces, steel structures, food storage tanks. Operating range -10° C to + 40° C.

### Certifications

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: 100 parts by weight of Base with 27 parts by weight of Reagent Coloured version (standard colours): 100 parts by weight of Base with 25 parts by weight of Reagent.

13 IST 21

Coloured version (p20): 100 parts by weight of Base with 21 parts by weight of Reagent.

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 (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.

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.

#### Specific Weight

A 1,70 – 1,80 gr/cm<sup>3</sup> (\*)  
B 1,02 – 1,08 gr/cm<sup>3</sup> (\*)  
1.40 - 1.58 g/cm<sup>3</sup> at 20 ± 2 °C depending on colour.

ASTM D 1475  
EN ISO 2811-1

#### High Solid Content

98 (± 2%).

ASTM D 2369  
EN ISO 3251

Viscosity at 25 ± 2°C	A 44640 – 66960 mPa s. (*) B 672 – 1008 mPa s. (*) 3000 - 5000 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	With ethyl alcohol or epoxy thinner, the percentage varies from 5 % to 15 % depending on the application. Caution: use only 99° ethyl alcohol in food storage tanks.	13 IST 21
Mixing duration	Pot-life 60 - 80 minutes at 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Dry to the touch after 12 hours at 20 ± 2°C at 50 ± 10 % R.H. Curing of two coats: 4 to 8 days depending on environmental conditions. Tendency to matting and clouding at low temperatures (< 10°C) and high R.H. (> 70%).	ASTM D 1640 EN ISO 866
Covering	After 12 - 24 hours depending on temperature, no longer than 48 hours. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	(theoretical) for each layer 0.250-0.300 kg/m <sup>2</sup> at the recommended thickness of μm 200 approx.	13 IST 03
Film Appearance	Glossy, shiny; slight tendency to yellowing and chalking due to UV exposure, wear and ageing.	-
Number of layers	One or more layers depending on the thickness of the film required.	-
Tool washing	With epoxy/nitro thinner.	-
Warehouse storage	12 months from date of manufacture (lot no. on label with AAMMGG) in tightly sealed original packaging in a dry and ventilated environment at an ambient temperature of not less than + 10°C. Do not expose packages directly to the sun. Fear 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
Iron Adhesion (MPa) ASTM D 4541 EN 1542	> 6,0
Abras. 1Kg 1000rpm ASTM D4060 EN ISO 5470/1	< 60 mg
Reaction to fire EN 13501-1	B <sub>fl</sub> -s1
Compressive strength (MPa) UNI13892/2	65 ± 5
Flexural Strength (MPa) UNI 13892/2	30 ± 5
Elastic Modulus (MPa)	3500
Elongation Break (%)	> 1,5

(\*) Technical specification in the certificate of analysis

**Surface preparation** Sandblasting, mechanical or manual abrasion; on ferrous substrates sandblast Sa2 ½ and apply suitable adhesion promoter.  
On inside tanks check for tightness. If underground, consult our Technical Department.

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 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  $\geq 10^{\circ}\text{C}$  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

By brush, roller or airless.

## Colours and packs

Available in the neutral version in the following packages:

Base kg. 9,790 + Reag. kg. 2,610 = total kg. 12,400 A+B

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

Base kg. 10,300 + Reag. kg. 2,610 = total kg. 12,910 A+B

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

Base kg. 12,390 + Reag. kg. 2,610 = total kg. 15,000 A+B

Pigmentable with solvent-based colouring pastes incorporated in the base.  $\Delta E$  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](http://www.pavaresine.com)

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