

# Pavatekno 25F estate

Low yellowing structural epoxy binder for resin mortars

## Composition

Two-component epoxy-modified formula with high wetting power.  
VOC limit 100 g/l - actual VOC < 25 g/l.

## Fields of application

Renovation work on concrete substrates. Also suitable for thick resin flooring for new installations or restoration of damaged flooring and/or substrates; binder for Venetian flooring and screeds with ceramicised quartz. Version optimised for winter use.

## Marking



### EN 13813

Flooring - Screeds and screed materials - Properties and requirements

- Wear resistance (AR0,5)
- Compressive strength (C70)
- Flexural strength (F20)
- Grip strength (B2,0)
- Impact resistance (IR10)
- Emission of corrosive substances (SR)

## Certifications



- Protective coating for concrete in accordance with EN 13813, DOP no. 170805-2015, Factory Production Control Body certification no. 0546, certificate 2017, which issues the CE marking. Fire certification class Bfl-S1 (EN 13501-1).
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- EPA (Environmental Protection Agency) certified for very low emissions, according to EN-ISO 16000 and AgBB 'Assessment procedure for VOC emissions from building products'.
- LEED regulatory compliance for low-emitting materials, EQ Credit 4.1—4.2—4.3 reduction of pollutant emissions (VOCs) inside buildings.
- The product complies with Ministerial Decree 11/10/2017 and meets requirement b, found in section 2.5.13 Paints and Varnishes of the CAM BUILDING (minimum environmental criteria).

## Quality

The product undergoes thorough and constant testing in our laboratories. The raw materials used are rigorously selected and checked.

## Technical specifications

### Results

### Method

#### Catalysis ratio

Combine 100 parts by weight of Base with 50 parts by weight of Reagent.

All Pava formulations must be mixed thoroughly before proceeding with the various application stages. Manual mixing is not permitted; incorrect mixing will result in incomplete hardening of the coating.

Pre-mix component A (base) with a propeller/paddle mixer, then add the second component B (reagent) and mix for at least 3 minutes until the mixture is homogeneous in terms of density and colour. Combine the different components, taking care to mix thoroughly at low speed in order to obtain a homogeneous colour mixture. It is recommended to take particular care when mixing all the compound present inside the individual components; with the help of a spatula/knife, scrape the product from the sides/bottom of the container in order to maintain the catalysis ratios unchanged.

While mixing, add the inert fillers (quartz) with variable grain size. Use a suitable grain size curve depending on the thickness to be achieved.

13 IST 21

Specific Weight	1,09 - 1,15 gr/cm <sup>3</sup> a 25C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	100 (±1) %.	ASTM D 2369 EN ISO 3251
Viscosity at 22±2°C	1000 - 1400 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	Ready to use. Can be diluted in varying percentages with ESE thinner.	13 IST 21
Mixing duration	Pot-life 40 - 45 min. a 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Touch dry after a maximum of 6 hours at 20 ± 2°C, hardening takes 2-3 days depending on the temperature and relative humidity.	ASTM D 1640 EN ISO 866
Covering	After 12/24 hours depending on temperatures and thicknesses obtained. For compatibility and recoatability, consult the Technical Department.	ASTM D 1640
Consumption and Yield	(theoretical) 0.700 - 0.900 kg/m <sup>2</sup> of theoretical thickness obtained of 5.5 - 6.5 mm (produced in a ratio of 1:15 with quartz aggregates). These yields are indicative and depend on both the ratio and the grain size of the filler used and the surface roughness of the substrate. As a binder for screeds, it is recommended not to exceed a resin-quartz ratio of 1:15 by weight (grain size 0.2-1.5). As a skim coat for multilayer (loaded at 50% 0.1-0.3 on saturated seeding 0.1-0.6) consumption 400-500 g/m <sup>2</sup> .	13 IST 03
Film appearance	Transparent, possible yellowing if exposed to UV rays.	-
Number of layers	One or more layers, depending on the total thickness you want to achieve.	-
Tool washing	With nitro thinner.	-
Warehouse storage	12 months from the date of manufacture (batch number shown on the label with YYMMDD) in the original, tightly closed packaging at a temperature not below +10 °C. Do not expose the packaging to direct sunlight. Protect from frost.	-

*The system is not self-supporting according to UNI10966, but conditioned by the support; the samples were not made 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 1000giri) ASTM D 4060 EN ISO 5470/1	< 40 mg
Shore Surface Hardness UNI EN ISO 866	> 98 A
Compressive strength (MPa) UNI 13892/2	70 ± 8
Flexural Strength (MPa) UNI 13892/2	28 ± 5
Elongation Break	< 1,0
Shore Surface Hardness EN ISO 866	78 D (colorato) 82 D (trasparente)

## Surface preparation

Sandblasting, shot blasting, bush hammering, scarifying, smoothing, sanding.

Any imperfections or irregularities that may compromise the final aesthetic effect must be corrected by sanding and/or levelling the substrate before applying subsequent products.

In the presence of cracks and/or hairline cracks in the substrate, carefully check the nature of these phenomena: whether they are due to plastic shrinkage or to structural stress phenomena affecting the substrate itself. In the case of both static and dynamic cracks/cracks, consult our Technical Department in order to take appropriate action. No liability can be attributed to the product in the event that such cracking affects it, as, according to UNI EN 10966, these systems are not self-supporting.

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

Before applying Pava products, it is essential to treat all critical points (any cracks in the substrate, corners, edges, vertical flaps, expansion and/or structural joints, gutters, drainage channels, grates, gutter connections, drainpipes and downspouts, steps and thresholds, skylights, system pipes and penetrations) must be treated in advance.

## Application Conditions

It is recommended to apply the product at a temperature between 10°C and 35°C and relative humidity  $\leq$  70%. Application in different environmental conditions could lead to various aesthetic and/or technical defects and failure to achieve the product's characteristics and performance. Consult the Technical Office in case of special situations.

## Application

Using a spatula or squeegee for multi-layer smoothing applications. For the creation of epoxy screeds, special equipment is required: orbital mixer, vibrating screed and/or helicopter for mechanical trowelling.

## Colours and packs

Transparent. Available in the following packs:

Base kg. 10,000 + Reag. kg. 5,000 = total kg. 15,000 A+B

Available in drums in the following packaging:

Base kg. 160 + Reag. kg. 80 = total kg. 240 A+B

Can be pigmented with solvent-based colouring pastes added to the base.

## Warnings

We do not recommend using products that, upon opening the container, show signs of instability and/or degradation, including thickening, crystallisation, gelatinisation, sedimentation, flotation, etc., due to incorrect storage of the material (temperature/humidity) during transport or in the final warehouse, or due to use after the expiry date.

We strongly recommend that you attend the applicator course before using Pava products. Anyone who uses these products without being qualified to do so does so at their own risk and without liability on the part of the manufacturer.

## Technical Notes

In the presence of damp substrates or with counter-pressure humidity  $\geq$  4% (measured with calcium carbide), blistering, bubbling or detachment of the applied layers may occur.

In these cases, the problem can be managed by first applying Trico Bar, which acts as a vapour barrier. This product should be applied in two coats for a total consumption of at least 1.5 kg/m<sup>2</sup>. Consult the product data sheet and the Technical Office for appropriate instructions.

## UNI Standard 11835

The UNI 11835 standard, in force since 2021, defines and certifies the role of applicators and sales technicians for resin systems for internal and external horizontal and vertical surfaces, outlining the fundamental requirements, the set of knowledge, skills, autonomy and responsibilities that, within the construction supply chain, must distinguish and characterise these professional figures in their relationships 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 provides a more precise profile of operators in the sector, highlighting the typical characteristics of the sector. In addition, the standard outlines resin system operators, dividing them into four professional figures (specialised resin system installer, resin system foreman, decorative resin system foreman and sales technician). For each professional figure, the relevant tasks are described, as well as the knowledge and skills required to perform them.

As described above, the resin coating sector therefore requires competence and professionalism. These can be certified according to UNI CEI EN ISO/IEC 17024 through a licence obtained by passing an examination (written, practical and oral test) administered by a certified third party, as defined by UNI 11835.

Participation in professional training activities is strongly recommended in order to obtain professional certification and acquire the skills and abilities listed in the provisions of the aforementioned UNI 11835 standard, associated with level 4 of the QNQ classification (Recommendation 2017/C189/03, Annex II). Therefore, no liability can be attributed to the manufacturer in the event that the operator does not possess the qualification licence and the resulting validated skills, in the event of improper

use or defects in the works carried out, as the products are intended for strictly professional use.

## Product for professional use

Keep out of reach of children. During use and drying, ventilate the premises well. Do not eat, drink or smoke during use. Wear gloves and protective goggles during use and take the usual precautions for handling chemicals. In case of contact with eyes or skin, wash immediately and thoroughly with water and consult a doctor. If swallowed, contact a poison control centre or doctor immediately. Ventilate the premises before entering.

The above products have a low environmental impact and reduce solvent pollution, improving quality, safety and hygiene for the user. We recommend strict compliance with the hygiene regulations in force for the handling of resins (Ministry of Labour Circulars 46/1979 and 61/1989). For further information, please refer to our safety data sheet.

## QR-CODE

The label on each product shows the relevant QR CODE for viewing and downloading the technical data sheet. If you are unable to download it, please contact the Technical Department.

The information contained in the technical data sheet is the most up-to-date information available to us, and we reserve the right to make any necessary changes. However, this information should be considered non-binding and does not constitute a legal contractual relationship or accessory obligation to the sales contract. Given that the use of the product also takes place outside our control, responsibility for its incorrect use lies exclusively with the user and therefore does not entail any guarantee or responsibility on our part for the final result of the work. Any guarantee statement must be expressly and specifically confirmed in writing by Pava Resine Srl in order to be valid. Furthermore, they do not exempt the customer from the exclusive burden and responsibility of verifying the suitability of our products for the use and purposes for which they are intended. The customer is also required to verify that the values reported in the technical data sheet are valid for the batch of product of interest and have not been superseded and/or replaced by subsequent editions. This data sheet cancels and replaces the previous ones. For all other matters, please refer to our General Terms and Conditions of Supply, in particular with regard to 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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