

# Pava Unico®

Structuring one-component primer for the preparation of substrates for decorative systems

## Composition

Unico is a single-component structuring fixing primer in water dispersion with excellent adhesion and resistance on a variety of surfaces, including glass or ceramic substrates.

The product is composed of special resins and selected aggregates with a maximum grain size of 0.5 mm, making it a ready-to-use material that is quick and easy to apply.

Unico is ideal as a strong anchoring agent on various surfaces for various decorative systems or even in the need for an excellent adhesion or anchoring primer on even non-absorbent or glassy surfaces.

On tiles, it evens out and eliminates absorption while also eliminating the shading effect of joints with the special glass fibre reinforcement. The product is applied with a stainless steel American spatula. Suitable for radiant floors.

Real VOC < 50 g/l.

## Fields of application

Applicable as an anchoring primer on horizontal and vertical surfaces, such as:

- appropriately washed and degreased tiles or glass surfaces; no mechanical abrasion is required;
- solid, cohesive and dust-free concrete screeds and floors;
- wood, plasterboard, polymer-cement and silicate panels;
- stone material;
- painted metal;
- mechanically prepared painted walls;
- interior furnishings.

## Advantages

- excellent anchorage power on non-absorbent surfaces;
- ideal for restoring flatness on tile substrates;
- evens out absorption and prevents shading of tile joints;
- easy to apply, even vertically;
- excellent mechanical resistance;
- can be recoated after only 2-3 hours;
- ready-to-use product.

## Marking

### EN 13813

Flooring - Screeds and screed materials - Properties and requirements

- wear resistance (AR1)
- adhesion strength (B2,0)
- impact resistance (IR4)
- emission of corrosive substances (SR)

## Certifications

- Fire certification class Bfl-S1 (EN 13501-1), Report nr. 0002846, 03/10/2012.
- Product able to inhibit bacterial growth according to ISO 22196:2011, Report nr. 16-7744/A.
- EPA (Environmental Protection Agency) certified for ultra-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 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          | One-component.<br>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 curing of the coating.               | 13 IST 21                    |
| Specific Weight          | 1,63 ± 0,3 g/cm³.                                                                                                                                                                                                                    | ASTM D 1475<br>EN ISO 2811-1 |
| Dilution                 | Ready to use.                                                                                                                                                                                                                        | 13 IST 21                    |
| Mixing duration          | Not applicable.                                                                                                                                                                                                                      | 13 IST 22<br>EN 9514         |
| Drying and curing        | Dry to the touch after 2 hours at 20 ± 2°C and 50 ± 10% R.H. Film curing from 4-6 days, depending on temperature.                                                                                                                    | ASTM D 1640<br>EN ISO 866    |
| Covering                 | 2-3 hours at +35° C.                                                                                                                                                                                                                 | ASTM D 1640                  |
| Consumption and Yield    | Approximately 1,000-1,250 kg/m² per layer.                                                                                                                                                                                           | 13 IST 03                    |
| Film Appearance          | Beige tending to brown.                                                                                                                                                                                                              | -                            |
| Number of layers         | Two layers are usually recommended.                                                                                                                                                                                                  | -                            |
| Tool washing             | With water.                                                                                                                                                                                                                          | -                            |
| Warehouse storage        | Months 12 from date of manufacture (lot no. on label with AAMMG).<br>Protect material from moisture, frost and direct sunlight.<br>Storage temperature: +5°C to +30°C. The product must remain in the original, unopened containers. | -                            |

*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.*

|                                                      |                     |
|------------------------------------------------------|---------------------|
| Is Adhesion (MPa) ASTM D 4541 EN 1542                | > 1,5               |
| Adhesion on Glazed Ceramic (MPa) ASTM D 4541 EN 1542 | > 2,0               |
| Maximum granulometry (mm)                            | 0,5                 |
| Reaction to fire EN 13501-1                          | B <sub>fl</sub> -s1 |

## Surface preparation

Preparation of the substrate is fundamental to guarantee an excellent end result, so the surface to be treated must be free of any pollutants, dry, and consistent. In any case, adequate surface preparation must be carried out depending on the type of substrate.

**Absorbent substrates** - cement, plaster, skim coats - must be carefully examined to ensure that they are suitable and structurally sound bases, without surface crumbling and dustiness, and without loose parts. Evaluate the suitability of an application of Reform 101 prior to the application of Unico.

Proceed with the application of Unico by interposing alkali-resistant glass fibre reinforcement mesh and continue with the application of the product until the reinforcement mesh is completely covered; ideally, apply two coats of the product. Consumption in two coats approx. 2.2-2.8 kg/m<sup>2</sup> approx.

**Non-absorbent substrates:** Tiles must be degreased and cleaned carefully. Check the perfect adhesion of the tiles to the underlying substrate and if some tiles do not adhere well, remove them and fill in the missing parts with a resinous mortar. Apply Unico by inserting alkali-resistant glass fibre reinforcement mesh and continue applying Unico until the reinforcement mesh is completely coated. Normally with a joint width of 2 to 5 mm, consumption is around 2.7 kg/sq.m. until the reinforcement mesh is completely covered. In the case of wider joints, in order to avoid excessive consumption of product, it is advisable to previously grout them with Unico and, once dry, to lightly sand away the excess and burrs caused by grouting and then apply Unico as specified above.

In the case of the presence of ridges or evident laying defects on the surface created, it is advisable to proceed with mechanical abrasion carried out with suitable equipment and abrasive discs before proceeding with the next steps. Tools must be cleaned with water on fresh product, otherwise it will be necessary to clean the tools with mechanical means after drying. Complete cycle curing, necessary for full capacity of use, is obtained after 7 days.

## 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 American spatula, steel trowel.

## Colours and packs

Available in 5 kg and 20 kg packages.

## 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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Issue nr. 4

of 08/01/2024

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