

Pava Malta®

Structuring three-component epoxy mortar for substrate rehabilitation

| LINEA TRICO SYSTEM |

Composition

A water-emulsifiable, three-component, epoxy-modified, semi-levelling formulation developed for restoring the flatness of horizontal substrates.

The raw materials in view of the LCA (Life Cycle Assessment) are sourced from certified national and/or European suppliers and do not contain formaldehyde, free bisphenol, alkylpoliphenols and nonylphenols. VOC lim 100 g/l - real VOC < 20 g/l (excluding water).

Fields of application

Applicable on horizontal surfaces of various kinds, as an anchoring skim coat allows for excellent adhesion to the substrate; as a semi-leveling thick coat, it allows for levelling out substrates that are not perfectly structured, rough or not very flat for the subsequent overlaying of civil or industrial decorative products. Evaluate the choice of the most suitable primer according to the type of substrate.

Suitable for the construction and renovation of public premises such as shops, restaurants, showrooms, offices, etc. It also allows existing surfaces such as old tiles to be rehabilitated by providing significantly higher compressive strength than traditional cement-based self-levelling systems.

Marking

EN 1504-2

Coating for concrete surface protection

- protection against penetration risks (1.3)
- humidity control (2.2)
- physical resistance (5.1)

Certifications

- Protective coating of concrete according to EN 1504-2, DoP nr 161231-2019, Factory Production Control Body certification nr. 0546, certificate 2017, issuing CE marking.
- Fire certification class Bfl-S1 (EN 13501-1).
- 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 reduction of 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	100 parts by weight of Part A + 100 parts by weight of Part B + 400 parts by weight of Part C. 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 product. Mix component A beforehand with a suitable electric mixer at low speed (300 rpm). Do	13 IST 21
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the same for component B and add it to component A, mixing thoroughly for at least 1 minute. Still under mixing, gradually add component C and continue for at least 2 minutes until the mixture is completely homogenised and no lumps form. The formulation is now ready for use.

Only under very difficult environmental conditions is it advisable to add water (max. 2%; possible evidence of discolouration or slight surface defects).

Specific Weight	A 1,01 – 1,08 g/cm ³ (*) B 1,05-1,08 g/cm ³ C not applicable 1,76 ± 0,05 g/cm ³ a 20 ± 2°C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	A 54,8 – 60,5 (*) B 39-44% (*) C not applicable 83 ± 2 % a 20 ± 2°C.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	A 107 – 161 mPa·s (*) B 390-580 mPa·s (*) C not applicable	ASTM D 2196 EN ISO 3219
Dilution	Ready-to-use product; dilute with water up to a maximum of 2% of total A+B+C only if really necessary for environmental conditions.	13 IST 21
Mixing duration	Pot-life 20 - 30 min. at + 20 ± 2° C.	13 IST 22 EN 9514
Drying and curing	It dries to the touch after 3-4 hours at a temperature of 20 ± 2°C and 50 ± 10% R.H.; however, depending on the thickness made.	ASTM D 1640 EN ISO 866
Covering	After 1 - 7 days depending on temperature, substrate humidity and existing air exchange, using various types of finish. If the next cycle is a vapour-impermeable coating (epoxy or polyurethane, etc.), test the moisture present with a digital hygrometer or, if necessary, with a 'nylon test' (ASTM D 4263) in order to avoid unpleasant blistering, blistering and/or detachment. Compatibility and overpaintability, consult Technical Department. After 24 hours with water-based systems and after a minimum of 72 hours with waterproof epoxy systems.	ASTM D 1640
Consumption and Yield	0.600 kg/m ² for smoothing; approx. > 2.200-2.500 kg/m ² for pouring in semi-leveling mode.	13 IST 03
Film Appearance	Neutral colour, opaque.	-
Number of layers	One or more coats depending on the condition of the substrate; apply every 12/24 hours one after the other.	-
Tool washing	With water and detergent.	-
Warehouse storage	12 months from the date of manufacture (lot no. on the label with AAMMGG), in the original sealed packaging in a dry, ventilated place at a temperature of not less than	-

+10°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.

Compressive strength (MPa) UNI 13892/2 > 60

(*) Technical specification in the certificate of analysis

Surface preparation

Sandblasting, mechanical or manual abrasion, shot peening and bush hammering. Remove any loose parts and dust thoroughly. On particularly porous and dry surfaces we recommend the application of the Reform Pava formulation (see product data sheet).

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 cracks 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 cracks/cracks, consult our Technical Office in order to intervene appropriately. No responsibility can fall on the product in the event that such cracking processes affect the product itself since, according to UNI EN 10966, these 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 means of a stainless steel trowel or squeegee for leveling application. For semi-leveling application We recommend the use of a 5 x 7 mm toothed trowel with subsequent smoothing of the freshly applied product. The yield is proportional to the degree of absorption of the substrate and the thickness achieved.

Colours and packs

Available only in the neutral version in the following packages:

Part A kg. 5,000 + Part B kg. 5,000 + Part C kg. 20,000 = total kg. 30,000 A+B+C

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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