

# Trico Bar

## Epoxy cement adhesion promoter for wet surfaces

### Composition

Multi-purpose, water-emulsifiable three-component epoxy cement formulation specifically for damp substrates as a vapour barrier.

VOC lim 100 g/l - real VOC < 20 g/l (excluding water).

### Fields of application

Adhesion promoter for the following substrates: concrete, screeds, cured bituminous substrates, tiles, plaster, etc.; and for damp substrates and subsequent coatings with cement and resin formulations. When applied, the product is permeable to water vapour and impermeable to water, and permits subsequent coating with epoxy resin, polyurethane or elastic sheaths.

### Marking



#### EN 1504-2

Coating for concrete surface protection

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

### Certifications



- Protective coating of concrete according to EN 1504-2, DoP nr 141021 - 2013, Factory Production Control Body certification nr. 0546, certificate 2017, 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.

#### 0474/20 CERTIFICATE No. MED 213419CS

Surface materials and floor coverings with low flame-spread characteristics.

Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU, according to standards of Regulation (EU) 2019/1397. Certified by Rina Services S.p.A. (Notified Body No. 0474).

ISO 17/6:2010

IMO 20/0 FTP Code Part 5.



### Quality

The product undergoes careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled. The product is water-based and therefore not covered by the ADR transport hazard classes.

### Technical specifications

#### Results

#### Method

#### Catalysis ratio

16 parts by weight of Part A + 60 parts by weight of Part B + 70 parts by weight of Part C.

13 IST 21

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.

Combine the different components, taking care to mix thoroughly by stirring at low speed in order to obtain a homogeneous colour mixture. Particular care should be taken when mixing all the mixture within the individual components; with the help of a spatula/knife, scoop the product from the walls/bottom of the jar in order to maintain the catalysis ratios.

A percentage of quartz aggregates up to a maximum of 30% can be added to the properly mixed A+B+C formula in the grain size required to achieve the desired result.

If it is necessary to divide the packages, take care to mix all the coloured components well in order to

disperse the pigments evenly. With the aid of a precision balance, then divide the components, taking scrupulous care to maintain the catalysis ratios of the individual elements in order to avoid poor performance.

Specific Weight	1,70 - 1,84 g/cm <sup>3</sup> at 20 ± 2°C.	ASTM D 1475 EN ISO 2811-1
High Solid Content	84 - 89 %.	ASTM D 2369 EN ISO 3251
Dilution	With water from 5% to 10%, beware of higher dilutions as they may affect the effectiveness of the product. Roller application requires a slightly higher dilution, which is why we recommend at least two or more crossed layers as required. For maximum effectiveness of the product, a total of at least 1,500 kg/m <sup>2</sup> (dilution excluded) must be applied.	13 IST 21
Mixing duration	Pot-life 35 - 40 minutes at + 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Touch-drying after 180' at a temperature of 20 ± 2°C and 50 ± 10% R.H.	ASTM D 1640 EN ISO 866
Covering	Curing after 1 - 7 days depending on temperature, substrate humidity and existing air exchange, the next cycle is a vapour impermeable coating (epoxy or polyurethane, etc.) test with a digital hygrometer or better with a calcium carbide test or, if necessary, with a "nylon test" (ASTM D 4263) the humidity present in order to avoid unpleasant blistering, blistering and/or detachment. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	1,000 - 1,500 kg/m <sup>2</sup> , thickness not less than 1 mm. At least two layers are recommended. To obtain greater thicknesses, carry out several applications, possibly loading with quartz of a suitable grain size up to 30% on A+B+C.	13 IST 03
Film appearance	White colour, opaque.	-
Number of layers	Two or more layers depending on substrate conditions.	-
Tool washing	With water and detergent.	-
Warehouse storage	12 months from the date of production (lot no. on the label with AAMMGG), in the original sealed package in a dry and ventilated place at a temperature not below +10°C. Do not expose packages directly to the sun. Protect against frost. Transport must not take place below 10°C. Otherwise the lorry must be insulated.	-

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	> 3,0
Reaction to fire EN 13501-1	B <sub>fl</sub> -s1

## Surface preparation

Properly prepare the substrate by mechanical or manual abrasion, sanding or shot-blasting. Remove all loose parts by reconstructing any missing volumes with suitably filled resin mixtures. Dust the surface thoroughly and apply a specific adhesion promoter according to the nature of the substrate.

Any imperfections or irregularities that may compromise the final aesthetic effect must be corrected by mechanical preparation and/or regularisation of the substrate before the subsequent products are applied.

Traces of oil, grease, paint, efflorescence, etc. must always be removed in advance and carefully, as well as chalking or

removable portions.

In the presence of cracking processes and/or crazing in the substrate, carefully verify the nature of these phenomena by assessing whether they are due to plastic shrinkage or structural-tension phenomena affecting the substrate itself. In the case of both static and dynamic phenomena, please consult our Technical Department in order to take appropriate action. No liability can fall on the product in the event that such cracking processes affect the product as, according also to UNI EN 10966, these systems are not self-supporting.

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 or metal spatula; if applied by roller, it must be ensured that all the porosity of the substrate is saturated, however, at least two cross layers are required for optimal product effectiveness.

Trico Bar can also be coated after 24-48 h, but always depending on the environmental and moisture conditions of the substrate. High substrate humidity values affect, and delay, the curing time. For a faster execution of the entire cycle, we recommend applying Trico Bar when the humidity of the substrate drops to 4.5% or less (measured with a carbide hygrometer).

If a product thickness of more than 1.5 mm is required, apply one or two coats successively, adhering to the above-mentioned overcoating schedule.

In case of application in particularly stressed structures, it is recommended to bury a reinforcing mesh; to do so, spread a coat of unthinned Reform 101 on the substrate previously primed with Reform 101 and bury the reinforcing mesh. After hardening, proceed with the application of Trico Bar mixed with max. 30% quartz.

## Colours and packs

Available in white in the following packages:

Part A kg. 0.910 + Part B kg. 3,520 + Part C kg. 3.970 = total kg. 8.400 A+B+C

Part A kg. 1,820 + Part B kg. 7,040 + Part C kg. 7,940 = total kg. 16,800 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](http://www.pavaresine.com)

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