

## COMPOSITION

Modified two-component pigmented epoxy product, solvent-free, designed for the chemical and food sectors; excellent chemical resistance and good mechanical resistance.

Free from Aromatic Amines and Phthalates and made with known substances and included in the specific positive lists allowed by Italian, European and American legislation.

VOC content lim 100 g/l (< 0,835 lb/gal), according to standard.

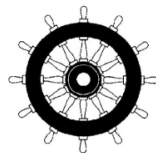
## FIELD OF USE

On walls and floors of tanks, silos, industrial plants and on any iron and concrete structure. Anticorrosive coating for interiors enabled for direct contact with food products (e.g. wine, fruit juices, drinking water, cereals, etc.).

Operating temperature <55°C.

## CERTIFICATIONS

- Certified by the Department of Hygiene University of Padova DM. 21/3/73 and subsequent updates, EC Directive 2002/72 and 2004/1935) and by the Mérieux NutriSciences Italy Laboratory, EU Reg. No. 10/2011 EC 14/1/2011.
- Compliant with Chapter 21 Code of Federal Regulations sec. 175.300 (b) (3) (vii) - Repeated Food-Contact (Food Types III, IVB, VIA, VIB, VII and VIII under Conditions of Use D through G).
- Fire certification class Bfl-S1 (EN 13501-1), Report nr. 0002846, 03/10/2012.
- EPA (Environmental Protection Agency) certified for very low emissions, according to EN-ISO 16000 and AgBB "Evaluation procedure for VOC emissions of construction products".
- Compliance with LEED regulations 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



EN 1504-2

Products and systems for the protection and repair of concrete structures

- protection against the risks of penetration (1.3)
- humidity control (2.2)
- physical endurance (5.1)
- resistance to chemicals (6.1)
- increase in resistivity (8.2)



## MARKING

## QUALITY

The product is subjected to careful and constant testing in our laboratories. The raw materials used are rigorously selected and controlled.

## TECHNICAL SPECIFICATIONS

### RESULTS

### ANALYSIS METHOD

Mixing Ratio (\*)

By weight: 100 parts of Base with 55 parts of Reag.

By volume: 100 parts of Base with 60 parts of Reag.

All Pava Resine products must be mixed thoroughly before proceeding with the various application phases. Manual mixing is not permitted; incorrect mixing causes the coating to not completely cure.

13 IST 21



TECHNICAL SPECIFICATIONS	RESULTS	ANALISYS METHOD
Mixing Ratio (*)	<p>Combine the different components, taking care to mix thoroughly by mixing at low speed in order to obtain a homogeneous color mixture. It is recommended to take particular care in mixing all the compound inside each individual components; with the help of a spatula/knife collect the product from the sides/bottom of the pot in order to maintain the catalysis ratios.</p> <p>Mix component A (Base) with a propeller/blade mixer and then add component B (reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous in density and chromaticity .</p> <p>For the colored version it is recommended to use the complete packaging. In the event that it is necessary to divide the packages, take care to mix properly all the colored component to disperse the pigments evenly. With the help of a precision balance, then divide the components paying careful attention in order to maintain the catalysis ratios of the individual elements, so as not to incur poor performance.</p>	
Specific Weight (**)	1,33 - 1,38 g/cm <sup>3</sup> at 20 ± 2°C (68 ± 2°F), depending on the color. Base specific weight: 1,40 - 1,44 g/cm <sup>3</sup> Reag. Specific weight: 1,30 - 1,35g/cm <sup>3</sup>	ASTM D 1475 EN ISO 2811-1
High Solid Content (**)	100 (± 1%) Test Pava.	ASTM D 2369 EN ISO 3251
Viscosity at 25±2°C (**)	6500 - 9500 mPas Base Viscosity: 8500 - 10000 mPas Reag. Viscosity: 2000 - 3500 mPas Base + Reag. Viscosity + 10% dilution: 1400 - 2000 mPas	
Adhesion to Concrete (*)	> 2,0 MPa	ASTM D 4541 EN 1542
Abrasion (1kg 1000cycles) (*)	< 100 mg	ASTM D 4060 EN ISO 5470/1
Adhesion to Iron(*)	> 6,0 MPa	ASTM D 4541 EN 1542
Fire Reaction (*)	B <sub>fl</sub> -s1	EN 13501-1
Break Elongation (*)	< 1,5	/
Dilution (*)	With ethyl alcohol (for food contact), percentage from 5% to 12%.	13 IST 21
Mixture Duration (*)	Pot-life of 60 - 80 minutes, if kept at 20 ± 2°C (68 ± 2°F).	13 IST 22 EN 9514
Drying Time (*)	Touch dry after about 12 hours, if kept at 20 ± 2°C (68 ± 2°F) and 50 ± 10% environmental humidity. Hardening of two layers: 6-8 days depending on the ambient temperature. Tendency to clouding in environments with low temperatures (<10 ° C) and high R.H. (> 70%).	ASTM D 1640 EN ISO 866
Recoating (**)	after 12 - 24 hours in operation temperature, not more than 48 hours. Compatibility and over-coating, refer to our Technical Office.	ASTM D 1640
Consumption and Yield (*)	(theoretical) for each layer 0,300 kg/m <sup>2</sup> at the recommended thickness of approximately 200-250 µm per each coating.	13 IST 03
Appearance of the Film (*)	Glossy, bright; tendency to yellowing and chalking due to UV exposure and with wear and aging. Prolonged contact with particularly aggressive chemical reagents can induce a surface color change of the color, without however affecting the integrity of the coating in its thickness.	/
Number of Layers	One or more layers, depending on the required thickness.	/
Tools Washing	With suitable thinner.	/
Storage Life	12 months, if kept in its original packaging. Do not expose to the sun light and to temperatures lower than 10°C (50°F). Do not expose the packages directly to the sun. Keep away from frost.	/

(\*) Tests performed according to the methods indicated in the internal control plan. The product is not self-supporting UNI10966, but conditioned by the support.  
No film tests RIF. ISO UNI EN 13892 - 2 (highthickness).  
(\*\*) Typical Values



**Preparation of Surfaces**

Sandblasting, mechanical or manual abrasion; perfectly clean the surface which must be healthy and sufficiently rough, dry and free of oils and fats. On the inside of the tanks, check their tightness. Refer to our Technical Office

On new concrete: apply on seasoned, plastered lime-based civil plaster.  
 On old concrete: in the presence of humidity, consult our. Technical office.  
 On ferrous substrates: prior sandblasting Sa2 ½ is required and application of suitable adhesion promoter.

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

In the presence of cracking processes in the support, carefully check the nature of these phenomena: if due to plastic shrinkage, and if due to stress-structural phenomena affecting the support itself. Both in the case of static and dynamic cracks consult our Technical Office in order to intervene appropriately. No responsibility can fall on the product in the event that these cracking processes affect the same 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 chalking or removable sections.

Before proceeding with the application of Pava Resine products, the preliminary treatment of all the critical points is mandatory (possible cracks in the support, corners, edges, vertical folds, expansion and/or structural joints, drains, grids, gutter connections, drainpipes, steps and thresholds, plant pipes, etc).

**Application**

Brush and spatula always in the same direction; if applied with a roller, it must be ensured that all the pores of the substrate are saturated and, however, a minimum of two crossed layers are required for optimal product effectiveness.

Airless spray application:

- Minimum pressure 200 bar
- Flow rate 10 l/min
- Tube diameter min. 8 mm (¾ inches)
- Nozzle 0.48 - 0.58 mm (0.019 - 0.023 inches)
- Spray angle 40° - 80° • Spraying angle

Temperature of material and equipment at least + 20°C. At low temperatures the use of a heater is recommended.

The application temperature should be between 10 and 25°C (50 - 77°F), paying attention to the summer period and to the sunlight exposure on the substrates to be treated. Use the product in the presence of adequate ventilation and away from heat sources.

Trico Bar Pava can also be coated after 24-48 h, but always in relation to the environmental conditions and humidity of the support. High humidity values of the support influence the hardening time by delaying it. For a greater speed of execution of the entire cycle, it is advisable to apply Trico Bar Pava when the humidity of the support is at 4,5% (data measured with a carbide hygrometer).

If a thickness greater than 1,5 mm (0,591 in) is required, apply one or two coats, respecting the overcoating times mentioned above.

In case of application in particularly stressed structures, it is advisable to embed a reinforcement mesh; to do this, apply a coat of undiluted Reform Pava to the primer previously primed with Reform Pava and drown the reinforcement mesh. Once hardened, proceed with the application of Trico Bar Pava.

**Packs & Colors**

Available in the following packing:

Base kg. 0,650 + Reag. kg. 0,360 = total kg. 1,000 B+R  
 Base kg. 8,300 + Reag. kg. 4,539 = total kg. 12,839 B+R

Available colors: white, cream, ocher, red. ΔE Cielab <5.0 non-binding.

**Warnings**

If at the opening of the container the products show signs of instability/deterioration including thickening, crystallization, gelatinization, sedimentation, flotation, etc. due to incorrect storage of the material (temperature/humidity) both during transport and in the final warehouse or for use beyond the expiration date, the use is not recommended.

Product for professional use.

It is strongly recommended to use the applicators course before using Pava Resine products. Anyone who uses these products without being enabled, does so at their own risk.

Keep out of reach of children. Ventilate the premises well during use and drying. Do not eat, drink or smoke during use. During use, wear protective gloves and goggles and use the usual precautions for handling chemical products. In case of contact with eyes or skin, wash immediately with plenty of water and consult a doctor. If swallowed contact a poison control center or a doctor immediately. Ventilate the premises before staying there.

**Rules to be observed**

The above mentioned products and technologies results low-environmental impact and permit to reduce the internal and external pollution caused by solvents. Compliance to the hygenic standards in force as the use of epoxy resins is strongly recommended. For more informations, see our Safety Sheet.

**Handling Precautions**

**NOT RECOMMENDED FOR:**

- DO NOT apply on concrete which is less than 10 days old.
- DO NOT apply on concrete with a curing or sealing membrane.
- DO NOT apply on base concrete at a temperature lower than 10°C (50°F).
- DO NOT dilute with water.



**Handling Precautions**

**SLIP/FALL PRECAUTIONS:** We recommend using slip resistant granules in all outdoor applications where the product will be used and on indoor applications that may be exposed to water, oil or other spills that may cause a slippery environment. Polymer or glass microfibers may be added into the product to achieve the amount of slip resistance desired. It is the end user's responsibility to determine the suitability of a coating for their particular application. Pava Resine will not be responsible for injury incurred in a slip/fall accident.

**SAFETY PRECAUTIONS: Health Considerations:** Consult our Safety Data Sheet.

Chemical systems require the use of proper safety equipment and procedures. Please follow our Safety Data Sheet for detailed information and handling guidelines.

**For Your Protection:** the information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Pava Resine. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and methods herein suggested. The toxicity and risk characteristics of products made by Pava Resine will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

Because of numerous factors affecting results, Pava Resine makes no warranty of any kind, express or implied, other than that the material conforms to its applicable current Standard Specifications. Pava Resine hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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