

COMPOSITION

Solvent-free, two-component, pigmented, epoxy formulation with good chemical and mechanical resistance.

FIELD OF USE

Coating for concrete surfaces where special chemical and mechanical resistances are required. Slightly peeled finish, change of surface colour due to prolonged contact with chemical agents. Wheel loadable for medium-light or medium-heavy rubber transit with multi-layer cycle.

Low resistance to yellowing due to exposure to UV rays.

Operating temperature from -10°C. to +40° C.

CERTIFICATIONS

- Fire certification class B_n-S1 (EN 13501-1), Report nr. 0002846, 03/10/2012;
- Product capable of inhibiting bacterial proliferation according to ISO 22196:2011, Report no. 16-7744/A;
- 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.



EN 1504-2

Protective concrete coating according to EN 1504-2, DOP nr 150127-2014, Factory Production Control Body certification nr. 0546, 2017 certificate, which issues the CE marking.

Coating for Ingress Protection, Moisture Control, Physical Resistance and Chemical Resistance (1.3 C – 2.2 C – 5.1C – 6.1 C)

MARKING



EN 13813

Floors - Screeds and screed materials - Properties and requirements

- *Wear resistance (AR0,5)*
- *Compressive strenght (C50)*
- *Flexural strenght (F20)*
- *Adhesion strenght (B2,0)*
- *Impact resistance (IR10)*
- *Emission of corrosive substances (SR)*

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 (*)

NEUTRAL version: combine 100 parts in weight of BASE with 25 parts in weight of Reagent "P".

COLOURED version (standard colours): combine 100 parts in weight of BASE with 22 parts in weight of Reagent "P".

COLOURED version (p20): combine 100 parts in weight of BASE with 20 parts in weight of Reagent "P".

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.

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.

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.

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.

13 IST 21



COMPANY WITH
 UNI EN ISO 9001
 QUALITY MANAGEMENT SYSTEM
 CERTIFIED BY CERTIQUALITY



TECHNICAL SPECIFICATIONS	RESULTS	ANALYSIS METHOD
Specific Weight (**)	1,45 - 1,65 g/cm ³ a 20 ± 2°C, depending on the color.	ASTM D 1475 EN ISO 2811-1
High Solid Content (**)	100 (±2) % according to the internal Test Lab modes.	ASTM D 2369 EN ISO 3251
Viscosity at 25± 2°C (**)	1500 - 3500 MPas	ASTM D 2196 EN ISO 3219
Adhesion to Concrete (*)	> 3,0 MPa	ASTM D 4541 EN 1542
Abrasion (1 Kg 1000 cycles CS10) (*)	< 30 mg	ASTM D 4060 EN ISO 5470/1
Surface Hardness Shore	> 98 A	UNI EN ISO 866
Fire Reaction (*)	B _{f1} -s1	EN 13501-1
Compressive Strength (*)	65 ± 10 MPa	UNI 13892/2
Flexural Strength (*)	25 ± 5 MPa	UNI 13892/2
Break Elongation (*)	< 2,0 %	/
Dilution (*)	From 5 to 15 % with 99,9° ethyl alcohol or with specific thinner.	13 IST 21
Mixture Duration (*)	Pot-life of 70 - 90 minutes at 20 ± 2°C and at 50 ± 10 % R.H. (mixed product).	13 IST 22 EN 9514
Drying Time (*)	Touch dry after 10 - 12 hours at 20 ± 2°C and at 50 ± 10% R.H. Hardening of the film from 4 to 6 days, depending on the temperature.	ASTM D 1640 EN ISO 866
Recoating (**)	(If necessary) after 24 hours - max. after 48 hours. Compatibility and overcoating, please refer to our Technical Office.	ASTM D 1640
Consumption and Yield (*)	(Theoretical for each layer) 0,200-0,300 kg/m ² at the recommended thickness of µm 200.	13 IST 03
Appearance of the Film (*)	Semi-glossy, with a slightly peeled anti-slip finish; tendency to yellowing and chalking due to U.V. exposure.	/
Number of Layers	One or more layers, depending on the required thickness.	/
Tools Washing	With nitro-thinner.	/
Storage Life	12 months in the original, well-closed packaging, in ventilated and dry rooms; if possible at room temperature not lower than + 5°C. 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

Mechanical or manual abrasion, shot peening or bush-hammering.

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

In the presence of cracking processes and/or cracks in the substrate, carefully check the nature of these phenomena: if they are due to plastic shrinkage, and if they are due to tensional-structural phenomena weighing on 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 these cracking processes affect the product because, according to UNI EN 10966, these systems are not self-supporting.

Any traces of oils, greases, paints, varnishes, efflorescence, etc... must be removed beforehand, as well as any crumbling or removable traits.

Before proceeding with the application of Pava Resine products, it is mandatory to pre-treat all critical points (any cracks in the substrate, corners, edges, vertical flaps, expansion and/or structural joints, gutters, gratings, gutter connections, drainpipes and downspouts, steps and thresholds, skylights, system piping and through bodies).



Application

Brush, roller and airless, with temperatures not lower than + 15°C. Since the film produced is almost waterproof, bubbles or detachments can be generated in the presence of humidity.

Packs & Colors

- Available in the *NEUTRAL Version* in the following packagings:
 Base Kg. 0,750 + Reag. Kg. 0,190 = Total Kg. 0,940 B+R
 Base Kg. 4,870 + Reag. Kg. 1,250 = Total Kg. 6,120 B+R
 Base Kg. 9,740 + Reag. Kg. 2,500 = Total Kg. 12,240 B+R
 - Available in the *COLORED Version (standard colors)* in the following packagings:
 Base Kg. 11,390 + Reag. Kg. 2,500 = Total Kg. 13,890 B+R
 - Available in the *COLORED Version (p10)* in the following packagings:
 Base Kg. 0,840 + Reag. Kg. 0,190 = Total Kg. 1,030 B+R
 Base Kg. 5,480 + Reag. Kg. 1,250 = Total Kg. 6,730 B+R
 Base Kg. 10,960 + Reag. Kg. 2,500 = Total Kg. 13,460 B+R
 - Available in the *COLORED Version (p15)* in the following packagings:
 Base Kg. 0,890 + Reag. Kg. 0,190 = Total Kg. 1,080 B+R
 Base Kg. 5,790 + Reag. Kg. 1,250 = Total Kg. 7,040 B+R
 Base Kg. 11,580 + Reag. Kg. 2,500 = Total Kg. 14,080 B+R
 - Available in the *COLORED Version (p20)* in the following packagings:
 Base Kg. 0,940 + Reag. Kg. 0,190 = Total Kg. 1,130 B+R
 Base Kg. 6,090 + Reag. Kg. 1,250 = Total Kg. 7,340 B+R
 Base Kg. 12,240 + Reag. Kg. 2,500 = Total Kg. 14,740 B+R
- 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 take part to 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 have a low environmental impact and allow to reduce pollution from solvents improving quality, safety and hygiene of the user. We recommend the scrupulous observance of the hygiene rules in use for the handling of resins . (Circ. Min. Lav. 46/1979 and 61/1989). For more information, see our Safety Data Sheet.

Handling Precautions

NOT RECOMMENDED FOR:

- DO NOT apply on concrete which is less than 28 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.

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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