

# Albichem EN

## Chemical pigment formulation - short pot-life resistant

### Composition

Solvent-free two-component formulation based on epoxy-nova and special amines with excellent chemical resistance and good mechanical strength. Coating with a semi-glossy appearance and high speed of hardening such that the chemical-physical characteristics mature in a short period of time. The material is sensitive to the reaction of carbonation that promotes opacity and whitish haloes visible especially on light colours, due to contact with water/liquids during the hardening phase of the product (even after 2-5 days if the substrate temperatures are particularly low). VOC lim. 100 g/l, according to standard.

### Fields of applicazioni

Thick film coating on cement surfaces, steel structures, liquid and solid containment tanks, even chemically aggressive ones (consult our technical department in advance). Good UV resistance. Working range -10° C. to + 50° C.

### Marking



#### EN 1504-2

Coating for concrete surface protection

- protection against penetration risks (1.3)
- humidity control (2.2)
- physical resistance (5.1)
- resistance to chemicals (6.1)
- increased resistivity (8.2)

### 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

NEUTRAL version: combine 100 parts by weight of BASIC with 30 parts by weight of REAGENT R55.  
COLOURED version (p8): combine 100 parts by weight of BASIC with 28 parts by weight of REAGENT R55. All Pava formulations must be mixed thoroughly before proceeding with the various application steps. Manual mixing is not permitted; incorrect mixing will result in incomplete hardening of the coating.

13 IST 21

Pre-mix component A (Base) with a propeller/shovel mixer, then add the second component B (Reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous in density and colour. Combine the different components, taking care to mix thoroughly by mixing at low speed in order to obtain a homogeneous colour mixture. It is recommended to take particular care in 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.

For the coloured version, it is recommended to use the complete packages. If it is necessary to divide the packages, take care to mix the entire coloured component 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

A 1.34 - 1.43 g/cm<sup>3</sup> (\*)  
B 1.00 - 1.10 g/cm<sup>3</sup> (\*)  
1.40 - 1.58 g/cm<sup>3</sup> at 20 ± 2 °C, depending on colour.

ASTM D 1475  
EN ISO 2811-1

High Solid Content	≥ 98 %	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	A 21400 – 32100 mPa s (*) B 100-500 mPa.s (*) 3500 - 5500 mPa s.	ASTM D 2196 EN ISO 3219
Dilution	With ethyl alcohol or suitable thinner, the percentage varies from 5 % to 15 % depending on the application.	13 IST 21
Mixing duration	Pot-life 20 - 25 minutes at 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	Dry to the touch after 5-6 hours at 20 ± 2°C at 50 ± 10 % R.H. Curing of two layers: 2 to 4 days depending on environmental conditions. Tendency to matting and clouding at low temperatures (< 10°C) and high R.H. (> 70%).	ASTM D 1640 EN ISO 866
Covering	After 10 to 24 hours depending on temperature, no longer than 48 hours. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	(theoretical) for each layer 0.300 kg/m <sup>2</sup> .	13 IST 03
Film Appearance	Glossy, shiny; tendency to yellowing and chalking due to UV exposure, wear and ageing.	-
Number of layers	One or more layers, depending on the thickness required.	-
Tool washing	With appropriate thinner.	-
Warehouse storage	12 months from the date of manufacture (batch no. on the AAMMGG label) in the tightly closed original packaging at a room 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.*

Clis Adhesion (MPa) ASTM D 4541 EN 1542	> 2,0
Abrasion (1Kg 1000rpm) ASTM D 4060 EN ISO 5470/1	< 70 mg
Elongation Break (%)	< 1,5
Reaction to fire EN 13501-1	Bfl-s1
Compressive strength (MPa) UNI 13892/2	75 ± 5
Flexural Strength (MPa) UNI 13892/2	30 ± 5
Elastic Modulus (MPa)	4000

(\*) Technical specification in the certificate of analysis

## Surface preparation

Sandblasting, mechanical or manual abrasion; on ferrous substrates sandblast Sa2 ½ and apply suitable adhesion promoter. On internal tanks, check for tightness. If underground, consult our Technical Office. 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 cracks and/or crazing 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 fissures/cracks, consult our Technical Office in order to intervene appropriately. 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.

Any traces of oil, grease, paint, efflorescence, etc. must be removed beforehand, as well as any chalking or removable sections.

Before proceeding with the application of Pava products, all critical points must be treated in advance (any cracks in the substrate, corners, edges, vertical turn-ups, expansion and/or structural joints, channels, gutters, grates, eaves fittings, drainpipes and downpipes, steps and thresholds, skylights, plant piping and passages).

## 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

Brush, roller and airless. As the film made is almost impermeable, bubbles or detachment may occur in the presence of moisture.

## Colours and Packs

Available in NEUTRAL or COLOURED (standard colours) in the following packages:

Base kg. 11,400 + Reag. kg. 3,500 = total kg. 14,900 A+B

Available in the COLOURED version (p8) in the following packages:

Base kg. 12,590 + Reag. kg. 3,500 = total kg. 16,09 A+B

in colours according to PAVA colour chart.  $\Delta E$  Cielab  $<5.0$  not binding.

## 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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