

P Crete PC-FT

Three-component, self-setting, coarse-grained polyurethane-cement formulation

Composition

Three-component, self-setting polyurethane resin formulation comprising balanced synthetic and hydraulic binders and mineral fillers, with excellent chemical and mechanical resistance. Coarse grain. For final thickness of 6-12 mm.

Fields of application

For the construction of semi-synthetic continuous flooring even in the presence of slight moisture, restoration and redevelopment of old, deteriorated industrial floors. Operating range -40°C to +120°C (discontinuous; varies depending on thickness).

Certifications

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 testing in our laboratories. The raw materials used are rigorously selected and controlled.

Technical specifications

Results

Method

Catalysis ratio

Catalysis ratio:
Out of 100 parts (A+B+C) for a pack total of 25,500 kg
- 9.8 parts of component A (equivalent to 2.500 kg)
- 10.2 parts of component B (equal to 2.600 kg)
- 80.0 parts of component C (equal to 20.400 kg)

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.

First add the previously pre-mixed components. While mixing, add component C powder and mix, preferably with a cage mixer, for a minimum of 3 minutes until the product is homogenous.

Combine the different components, taking care to mix thoroughly by stirring at low speed in order to obtain a homogeneous colour mixture. It is recommended to take particular care 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.

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.

13 IST 21

Specific Weight

2,00 - 2,20 g/cm³ at 20 ± 2 °C.

ASTM D 1475
EN ISO 2811-1

High Solid Content	92 - 97 %.	ASTM D 2369 EN ISO 3251
Dilution	Ready to use.	13 IST 21
Mixing duration	Pot-life 15 minutes at + 20 ± 2°C.	13 IST 22 EN 9514
Drying and curing	To the touch after a maximum of 7 hours at a temperature of 20 ± 2°C and 50 ± 10% R.H.	ASTM D 1640 EN ISO 866
Covering	16 - 20 kg/m ² for thickness 8-10 mm. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	2,100 kg/m ² per mm thickness.	13 IST 03
Film Appearance	Matt, rough, colours as per RAL table, tendency to yellowing due to UV exposure and ageing.	-
Number of layers	A layer 6 to 12 mm thick.	-
Tool washing	With nitro-thinner.	-
Warehouse storage	6 months from the date of manufacture (lot no. on the label with AAMMGG) in the original, tightly closed packaging in a ventilated and dry place at temperatures not below + 10 °C and above 25 °C. Do not expose the product directly to the sun. Protect from 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.

Cls Adhesion (MPa) ASTM D 4541 EN 1542	> 1,5
Compressive strength (MPa) at 7 days UNI 13892/2	> 50
Vapour permeability	3g/mq/24h
Flexural Strength (MPa) at 28 days UNI 13892/2	> 20 MPa
Reaction to fire EN13501-1	B _{fl} -s1

Surface preparation

The surface must be perfectly clean, free of traces of oil and grease, mechanically abraded, shot-blasted, milled and/or bush-hammered and finally dusted. If the surface is very porous and absorbent, it is necessary to apply a layer of Reform 101, after which Autopava Crete must be applied immediately on the not yet hardened product. Any imperfections or irregularities that may compromise the final aesthetic effect must be corrected by sanding and/or regularising the substrate before applying the subsequent products.

In the presence of cracking processes and/or crazings 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 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 Resine 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, guttering, eaves fittings,

drainage outlets and downpipes, steps and thresholds, skylights, plant piping and through-bodies).

Application

Toothed spatula and bubble breaker roller; apply at temperatures not below + 15 °C and above 25 °C of the substrate. It is indispensable to pass the bubble breaker roller several times, crossing the passes to eliminate entrapped air.

Tints and packaging

Available in the following packaging in the neutral version.

Base kg. 2,500 + Reag. kg. 2,600 + Part C kg. 20,400 = total kg. 25,500 A+B+C.

Pigmentable with solvent-based colouring pastes, please consult Technical Department. ΔE 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

Data sheet nr. 782
Issue nr. 10
of 08/01/2024