Data Sheet

Reform-A 72

DUSTPROOF, STAINPROOF, OIL-RESISTANT EPOXY FILM FORMULATION

Composition

Two-component, fluid emulsifiable, water-soluble epoxy formulation with low viscosity and high wetting power.

TRANSPARENT VOC lim 30 g/l - real VOC < 25 g/l (excluding water).

Fields of application

Thin, transparent film coatings as anti-dust coatings for industrial floors, carriageable for light wheeled traffic, with good oil-repellent properties. It is also suitable as an anti-evaporating agent and as an adhesion bridge for subsequent cycles; as well as, at the necessary quantities, as a reclaimer for layer thicknesses of no less than 5 mm. When applied on porous substrates, it is also capable of consolidating the surface.

Low and high thickness synthetic and semi-synthetic floor coverings for new interventions or restoration and rehabilitation of deteriorated concrete or sand-cement floors.

Working temperature -25° C to +40° C.

Marking

CE EN 1504-2

EN 1504-2

Coating for concrete surface protection

- protection against penetration risks (1.3)
- moisture control (2.2)
- physical resistance (5.1)
- increasing resistivity (8.2)

Certifications

- Protective coating of concrete according to EN 1504-2, DoP nr 161015-2018, Factory Production Control Body certification nr. 0546, certificate 2017, CE marking.
- Fire certification class Bfl-S1 (EN 13501-1).
- EPA (Environmental Protection Agency) according to EN-ISO 16000 and AgBB "Assessment procedure for VOC emissions from construction products" Report nr. 162477-002, 19/01/2017.
- LEED compliance for low emitting materials, EQ Credit 4.1-4.2-4.3, reduction of pollutant emissions (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 control in our laboratories. The raw materials used are rigorously selected and controlled.

Technical	**Results**	**Method**

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specifications

Catalysis ratio	Combine 100 parts by weight of Base with 92 parts by weight of Reagent. Perfectly emulsify the two components until a uniform creamy white appearance is obtained; add at least 50% water (not iced) and mix well to reduce the viscosity of the system; then add the remaining dilution water and remix. All Pava Resine formulations must be mixed thoroughly before proceeding to the various application steps. Manual mixing is not permitted; incorrect mixing will result in incomplete curing 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. 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. Pre-mix component A (Base) with a propeller/blender, then add the second component B (reagent) and mix for a minimum of 3 minutes until the mixture is homogeneous in density and colour.	13 IST 21
Specific Weight	1,05 - 1,13 g/cm³ at 20 ± 2°C	ASTM D 1475 EN ISO 2811-1
High Solid Content	70 - 75 % according to internal test lab procedures.	ASTM D 2369 EN ISO 3251
Viscosity at 25 ± 2°C	800 - 2500 mPa s	ASTM D 2196 EN ISO 3219
Dilution	Ready to use or dilutable with clean (not ice-cold) water in a ratio of up to 1 : 3 (resin : water, as anti-dust) depending on the type of substrate (porosity, absorption, etc.) adding the water slowly; if the surface is particularly wet, reduce the amount of water in the dilution.	13 IST 21
Mixing duration	Pot-life of 60 - 70 minutes at 20 ± 2°C and 50 ± 10 % R.H.	13 IST 22 EN 9514
Drying and curing	To touch after 14 - 16 hours at 20 ± 2°C and 50 ± 10 % RH; curing time 4 to 7 days depending on ambient conditions, Tendency to matting and clouding at low temperatures (< 10°C) and high RH (> 70 %).	ASTM D 1640 EN ISO 866
Covering	After 24 - 48 hours depending on temperature, substrate humidity (less than 4.5% - measured with carbide hygrometer) and existing air exchange. Compatibility and overpaintability, consult Technical Department.	ASTM D 1640
Consumption and Yield	As an anti-dust agent (theoretical per layer) 0.100 - 0.150 kg/m2 (Base + Reag. thinned product) As a binder (theoretical per layer) 1.000 - 1.200 kg/m2 (product loaded 1:8/9 with quartz, theoretical thickness obtained 4.8-6.3 mm) As a consolidating agent (theoretical per layer) 0.150 - 0.200 kg/m2 These yields are indicative and depend on both the grain size of the filler used and the roughness of the substrate.	13 IST 03
Film Appearance	Satin, yellowish; yellowing tendency due to UV exposure and wear.	-
Number of layers	Two coats are recommended as dust-proofing; one (thick) as a cast-off.	-
Tool washing	You can also clean the equipment with hot soapy water; if particularly thorough cleaning is required, use nitro thinner.	-
Warehouse storage	12 months in the tightly closed original packaging in a ventilated and dry place at temperatures not below 10 °C. Do not expose packaging to direct sunlight. Protect against frost.	

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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	> 2,0
Abrasion (1Kg 1000rpm) ASTM D 4060 EN ISO 5470/1	< 78 mg
Shore Surface Hardness EN ISO 866	> 95 A
Elongation Break	< 2,0

(*) Technical specification in the certificate of analysis

Surface preparation

Sandblasting or excellent manual preparation (sanding and/or scraping off anything that does not adhere perfectly to the substrate such as old paint that is coming off, mould, oil, grease). For residual moisture values greater than or equal to 4.5% (measured with calcium carbide), consult our Technical Office; even in the presence of rising damp from the substrate, we strongly recommend consulting our Technical Office in order to ascertain the type and manner of this damp, both in terms of the amount of water in the liquid state and in the vapour state.

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 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 affecting the substrate itself. In the case of both static and dynamic cracks/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 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 Conditions

We recommend applying the product at temperatures ≥ 10°C and ≤ 35°C and Relative Humidity ≤ 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 and roller for diluted product at temperatures not below + 10 °C. Since the film made is almost impermeable, bubbles or detachment may occur in the presence of high humidity. In case of application in particularly stressed structures, it is recommended to bury a reinforcing net; to do this, spread a coat of undiluted Reform Pava on the substrate previously primed with Reform Pava and bury the reinforcing net. After hardening, proceed with the application of Trico Bar Pava.

Colours and packs

Available in the following packages:

Base kg. 0,630 + Reag. kg. 0,570 = total kg. 1,200 B+R
Base kg. 2,850 + Reag. kg. 2,650 = total kg. 5,500 B+R
Base kg. 5,000 + Reag. kg. 4,600 = total kg. 9,600 B+R

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 ≥ 4% (measured with calcium carbide), blistering, blistering or

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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.

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