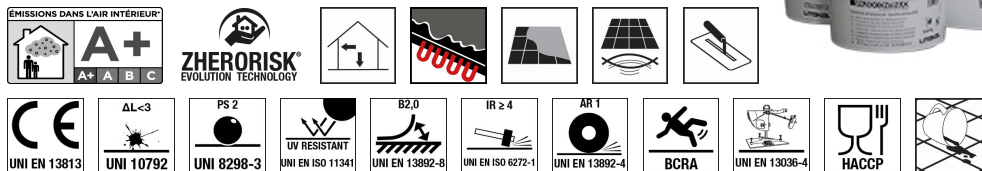


Wall
& Floor

SpazioLamina EVO #Ossidato Ramato

THREE-COMPONENT DECORATIVE RESIN FOR FLOORS AND WALLS. SUITABLE FOR OVERLAYING AND UNDERFLOOR HEATING. FOR INTERIORS. PRODUCT WITH VERY LOW VOLATILE ORGANIC COMPOUND EMISSION RATE.



DESCRIPTION

SpazioLamina EVO #Ossidato Ramato is a flexible, water-based epoxy decorative system that reproduces the effect of an oxidised copper panel.

Obtained from the oxidation of SpazioLamina #Crudo Rame.

The Ramato effect is the natural or artificial oxidation of copper, which causes a chiaroscuro, uneven, and natural blend of green/blue colours to emerge.

ADVANTAGES / FEATURES

- Product with very low volatile organic compound (VOC) emission rate, compliant with class A+ (Émission dans l'air intérieur – French Regulations)
- Suitable for installation on heating screeds
- Suitable for overlaying on existing flooring
- Extended workability of mix (about 40 minutes), which facilitates application on large surfaces
- Product exempt from restrictions for road, sea, air and rail transport
- Water-based product
- Product with excellent fluidity and easy to spread
- Easy to sand
- Excellent resistance to wear
- Real reproduction of oxidised copper effect (green/blue)

PACKAGING

SpazioLamina #Ossidato Ramato is obtained with the following products:

SpazioLamina EVO #Crudo Rame:

Bucket part A: 2.00 kg + Can part B: 0.46 kg + Can part C: 1.10 kg = Total 3.56 kg

SpazioLamina #Ossidato Ramato activator: 500 ml bottle

Neutralizzante EVO: 2 kg can

INTENDED USE

Intended uses

Interiors
Floors and walls
Underfloor heating
Overlaying on existing floors and coverings in ceramic, porcelain stoneware, mosaics, agglomerates, natural stones
Residential, public, commercial building
Covering of furniture and structures in wood, metal or plastic

Suitable substrates - Multifondo EVO on:

Cement screeds
Self-levellers
Skim coats
Lightweight panels (such as WEDI-SCHLUETER).
Separation membrane
Underfloor heating systems
Concrete
Normal and waterproof gypsum
Fibre cement slabs (such as Aquapanel)
Gypsum and anhydrite
Existing floors and coverings in ceramic, porcelain stoneware, mosaics, agglomerates, natural stones and wood
Rough cement plaster
Wood panels
Metal
Smoothed concrete
Fibreglass

RESIN DECORATIVE SYSTEM PLANNING

The only way to guarantee the long-lasting performance of resin decorative systems is to properly plan the process. It is therefore advisable to consult the national regulations in force in each country, for example standard UNI 10966 for Italy, which defines the planning and installation criteria for resinous systems for interior and exterior horizontal and vertical surfaces.

Some of the general precautions that need to be followed are listed below as an example.

ANALYSIS OF SUBSTRATE

Vapour barrier/retarder

Make sure the vapour barrier or retarder has been properly positioned under the substrate and is able to prevent rising damp that may damage the resin covering.

Curing

In order to be considered dimensionally stable, a substrate must be sufficiently cured.

Indicatively, concrete substrates need about 6 months to cure, screeds or cement plasters need about 7 days per centimetre of thickness, and ready-mixed products depend on the manufacturer's instructions.

Integrity and compactness

Assessed by visual inspection. A cement screed must be consistent and compact for its entire thickness.

The substrate must show no signs of cracks or rifts, nor of any brittle parts becoming detached.

Any cracks must be sealed using epoxy mortars, while the loose parts must be removed and the surface repaired using suitable cementitious levellers or skim coats.

In the case of pre-existing floor or wall coverings composed of ceramic and porcelain tiles, agglomerate or natural stone coverings, a tap test must be performed to check for proper adhesion.

No hollow points must be found when the surface is tapped. Any loose material must be removed.

Surface resistance

Its evaluation is very important insofar as surface layers that are not suitably resistant may cause the resin covering to detach.

An empirical assessment consists in etching the surface with a steel nail so as to form approximately 2 x 2 cm squares.

The surface resistance is considered acceptable if the incisions are not deep and do not produce a crumbling effect.

The surface resistance of a cementitious substrate can be repaired using suitable impregnating and consolidating primers, after first evaluating their compatibility with the resin covering.

Planarità

I supporti non devono presentare curvature irregolari, sia concave che convesse, superiori a 3 mm.

La verifica della planarità viene effettuata in diversi punti della superficie appoggiando un regolo di 2 metri e misurando la tolleranza con uno spessore.

Eventuali scostamenti possono essere corretti con idonei autolivellanti o rasanti.

Finitura superficiale

In linea generale i supporti destinati a ricevere un rivestimento resinoso a basso spessore si devono presentare lisci o con una rugosità massima ammessa di ± 1 mm.

Contenuto di umidità

Il valore massimo di umidità ammessa del supporto è pari al 3-3,5% per un supporto cementizio e dello 0,5% per un massetto in anidrite.

Pulizia

La superficie del supporto si deve sempre presentare pulita, esente da agenti contaminanti tipo lattime di cemento, grassi, oli disarmanti, residui di vernici, pitture, adesivi, ecc..

In presenza di questi contaminanti occorre effettuare una rimozione con opportuni detergenti o mezzi meccanici a seconda della natura del supporto e del tipo di sporco.

Treating of joints

Any joints must be scrupulously planned and treated.

They can be of different types, but fall into one of two categories: static or dynamic joints.

The former must always be grouted with Multifondo EVO and reinforced with 2 x 2 mm Reinforcing Mesh.

Dynamic joints, insofar as structural joints, must be respected (these can be closed using mechanical joints or elastomeric sealants).

CHOICE OF SUITABLE RESIN SYSTEM

A resin system must be chosen based on the client needs and in line with the future intended use of said system.

It is therefore necessary to consider: the type of mechanical stress to which it will be subjected, the type of chemical agents and frequency with which it will come into contact with them, and the possibility of wet areas such as bathrooms or showers.

PREPARATION OF SUBSTRATES

12 hours after the application of Multifondo EVO, it can be sanded with 60-80 grit sandpaper.

After carefully vacuuming any dust, proceed to apply the texture.

In any case, the respective technical data sheets must be consulted for correct use of the indicated products.

MIX RATIO

Component A 56.2 parts by weight – Component B 12.9 parts by weight – Component C 30.9 parts by weight.

The three components are pre-batched in their respective packaging.

PREPARING THE MIX

Pour all of component B into the container of component A, and mix until completely homogenised. Delicately pour into the mix the pre-batched powder component C, mixing slowly and incorporating it consistently. Mix, preferably using an electric drill with mixing paddle at low speed ($\approx 300/\text{min.}$) until a consistent mix is obtained without lumps. Hand mixing is not recommended. The three components are pre-batched in their packaging, thus preventing mixing errors. For small surfaces, the components can be partially mixed to avoid unnecessary waste. In these cases it is advisable to use a precision scale and to mix the components in accordance with the mixing ratio. In ambient conditions nearing the application limits (very warm or very cold climates), a maximum of 5% water can be added to the product during mixing to facilitate its spreading.

APPLICATION

Apply and level down to a "zero" skim coat using a smooth round-edged steel trowel (Stainless steel trowel 20x8 art. 201T0001 or Stainless steel trowel 24x11 art. 102PRO0001). Make sure not to exert excessive force on the trowel during this stage in order to fully cover the surface. If the product is applied correctly, it will completely hide the underlying substrate, albeit highlighting the chiaroscuro effects that will disappear with the second coat. During this stage, it is possible to create soft ridges of product in relief, to help give the material a more realistic effect. Approximately 24h after the second layer of the texture has been applied, once the surface has dried and after checking that no incisions are left when pressed with a fingernail, sand the surface using a single disc machine or sander with 100-120 grit mesh. Then vacuum the residual dust. Irregularly spray the sanded surface with the SpazioLamina #Ossidato Ramato Activator. An oxidation reaction instantly starts, which leads to the formation of green/blue oxidation. If after half an hour the oxidation appears too slight, the activator can be sprayed again over the less oxidised areas. Do not create deposits or build-ups of activator. Leave to dry and work for at least 24 hours. To fix and block the progression of this oxidation reaction, two coats of Neutralizzante EVO must be applied 3-5 hours apart using the "Small roller" (art. 251R0001). Lastly, 12 hours after the last coat of Neutralizzante EVO, use the "Flocked Roller" (art. 255R0001 or art. 256R0001) to apply at least two coats of Glossy, Satin, or Matt finish Hydrolux EVO topcoat at least 3-4 hours apart. After application of the second layer, the floor will be set to light foot traffic after 24 hours, and ready to use after 4-5 days. These time frames are necessary to allow the correct and complete curing of the entire resin system. See the technical data sheet of products beforehand to ensure correct application.

WARNINGS

- Since the product is based on synthetic resins in aqueous dispersion, it must be protected against frost. When packages are transferred and stored in a warehouse, the temperature must not fall below $+5^{\circ}\text{C}$ so as not to compromise the quality of the product
- Avoid storing the product in cans/buckets under direct sunlight or in very warm environments
- In warm climates, keep the packaged product in a cool and dry place away from the sun before use
- Respect the mix ratio
- Do not mix the product with water or solvents
- Do not add lime, cement or other foreign materials to the product
- Do not mix partial quantities of the components without using a scale; different mix ratios will compromise the proper setting of the product
- Spread the product at temperatures between $+5^{\circ}\text{C}$ and $+30^{\circ}\text{C}$ inclusive
- The pot life is about 40 minutes at a temperature of $+23^{\circ}\text{C}$. Be sure to mix only the quantity of product that can actually be used within this period of time
- Application of the product in environments with relative humidity greater than 80% is not recommended
- If the ambient temperature needs to be increased, use only electric heaters and not fired heaters (which may cause the emergence of surface defects)
- The temperature of the substrate must be at least 3°C higher than the dew point
- Applicable only on substrates prepared and levelled with Multifondo EVO
- During the winter, setting times may be significantly longer, therefore check that the surface of the coat is not sticky before any further levelling
- Do not use for exteriors
- Do not use in shower enclosures or areas in direct and continuous contact with water
- Protect the product against water for at least 24 hours after installation
- Do not use the product for applications not stated in this technical sheet
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- If in doubt, contact the Litokol S.p.A Technical Help Service.

SAFETY INFORMATION

Consult the product safety data sheet, available on request.
PRODUCT FOR PROFESSIONAL USE

IDENTIFICATION DATA

Appearance	Component A: white paste
Appearance	Component B: amber liquid
Appearance	Component C: very fine metallic powder
Customs code	32099000
Shelf life	12 months in original packaging in a dry place.

APPLICATION DATA

Mix ratio	Component A: 56.2 parts by weight
Mix ratio	Component B: 12.9 parts by weight
Mix ratio	Component C: 30.9 parts by weight
Appearance of mix	Thixotropic paste
Specific gravity of mix	2.00 kg/dm ³
Pot life	Approx. 40 minutes
Application	Stainless steel trowel 20x8 art. 201T0001 or Stainless steel trowel 24x11 art. 102PRO0001
Application temperatures	From +5°C to +30°C
Permissible relative ambient humidity	< 80%
Waiting time between coats	6-8 hours
Waiting time for overlying	12 hours
Temperature of use	From -5°C to +80°C
How to clean equipment	With water when product is fresh. Mechanically when product has set.
Consumption	1,2 kg/m ² in two coats

PERFORMANCE

Compliance	UNI EN 13813	SR
Resistance to abrasion/wear	AR 1	UNI EN 13892-4
Resistance to impact	IR 10	UNI EN ISO 6272-1
Adhesion to substrate	B>2.0	UNI EN 13892/8
Static punching	PS 2	UNI 8298-3
Resistance to UV rays	Excellent	ISO 11341
Resistance to temperature fluctuations	Excellent	
Resistance to ageing	Excellent	

COLOUR CHART



NOTES

Data detection at temperature +23 °C, R.H. 50% and with no wind. May vary depending on the specific conditions of the installation site.

The different textures of the Spaziocontinuo® surfaces have different colours, saturation and brightness. For each project, use materials from a single production batch.

Materials from different batches may assume slightly different colours.

The texture of Spaziocontinuo® is characterised by material discontinuity and natural irregularity, achieved through the skilful artisan work of the installer, thus making the surfaces unique.

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Revision n. **0**
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The information and provisions contained in this technical data sheet reflect our best experience. Given the impossibility of directly intervening on the conditions of the work site and execution of the works, they represent indications of a general nature, which are in no way binding on our Company. It is therefore recommended to perform a spot test in order to check the suitability of the product for the intended use. In any case, those who intend to use the product must establish whether or not it is suitable for the intended use, and in any case assume all liability for any consequences resulting from such use.

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