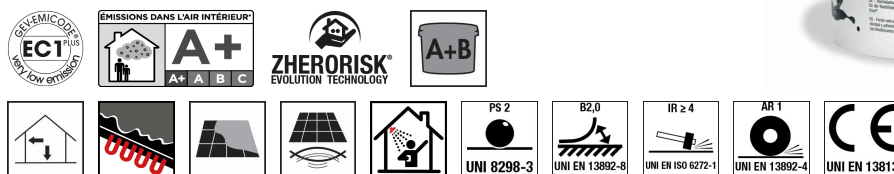


Wall
& Floor

Multifondo EVO

TWO-COMPONENT EPOXY SKIM COAT. SUITABLE FOR OVERLAYING AND UNDERFLOOR HEATING. PRODUCT WITH VERY LOW VOLATILE ORGANIC COMPOUND EMISSION RATE.



DESCRIPTION

Multifondo EVO is an epoxy structural primer in white, ideal for evening and levelling out substrates before the application of SpazioContinuo® and Starlike® Decor “Wall and Floor” decorative systems. Features excellent elasticity and adhesion on absorbent and non-absorbent substrates.

ADVANTAGES / FEATURES

- Product with very low volatile organic compound (VOC) emission rate. Complies with class EC1^{PLUS} according to the EMICODE protocol and 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 60 minutes), which facilitates application on large surfaces
- Product exempt from restrictions for road, sea, air and rail transport
- White colour, which enhances the colouring of the SpazioContinuo® textures and Starlike® Decor without altering the original shade
- Product with excellent fluidity and easy to spread
- Easy to sand
- Selected granulometry allowing excellent anchorage of the decorative levelling layer made with Starlike® Decor and SpazioContinuo®
- The high opaque effect makes it possible to even the surface of the substrate, covering any slight unevenness and colour differences
- Excellent adhesion on absorbent and non-absorbent substrates
- Ideal for the sealing of static joints or cracks
- Suitable to repair any cracks and fissures in cement screeds, sprinkling quartz sand with granulometry 0.4-1 mm over the surface while fresh, before applying adhesives, self-levellers or cementitious skim coats, and waterproofing membranes.

INTENDED USE

Intended uses

Interiors - exteriors
 Floors and walls
 Underfloor heating
 Overlaying on existing floors and coverings in ceramic, porcelain stoneware, mosaics, agglomerates, natural stones, and wood floors
 Residential, public, commercial building
 Indoor wet areas (bathrooms, shower enclosures)
 Covering of furniture and structures in wood, metal or plastic
 Sealing of static joints and cracks on cement screeds

Suitable substrates

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
 Smooth cement panels

PACKAGING

5 kg buckets (A: 4.669 kg + B:0.331 kg)

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 spessimetro.

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 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

The substrates must be clean, solid, compact, crack-free, properly cured and without rising damp.

Smooth substrates such as smoothed concrete, cementitious self-levelling layers, smooth cement panels, and wood panels must be sanded and subsequently vacuumed (in this case, do not apply the consolidating primer)

- Excessively porous and absorbent or powdery substrates must be treated with the consolidating primer Fissativo Universale EVO
- Floors and coverings in ceramic, porcelain stoneware, mosaic, agglomerates and natural stone must be suitably sanded or degreased with specific detergents such as Litoscrub EVO
- In the case of anhydrite screeds, check for the presence of a suitable vapour barrier in order to prevent rising damp. Use a carbide method hygrometer to check that the residual humidity is less than 0.5%. The surface must be sanded and treated with Fissativo Universale EVO
- Any cracks, fissures, and static joints must be grouted with Multifondo EVO and reinforced with 2 x 2 mm reinforcing mesh
- Existing paints or varnishes must be removed and the substrate treated with Fissativo Universale EVO
- Lime-, cement- or gypsum-based surface finishes applied with a low thickness must be removed and the substrate must be treated with Fissativo Universale EVO
- Non-level cementitious substrates can be levelled with Litoplan Rapid or Litoplan Smart, quick thixotropic cementitious levelling mortars
- In case of gypsum walls, check that “reinforced” grouting has been properly carried out with self-adhesive mesh or micropore paper and apply one coat of Fissativo Universale EVO with a brush or roller, only on the gypsum-based grouting between panels
- In case of lightweight panels such as WEDI or Schlüeter, check that the joints between panels have been previously reinforced through the application of a self-adhesive mesh (non-reinforced junctions will need to be reinforced by inserting the Litoband SK NET inside the Multifondo EVO). On these panels, Fissativo Universale EVO does not need to be applied
- Wood structures or furniture should be roughened using a sander with 120-180 grit mesh to open the surface pores or completely eliminate any existing layers of paint, varnish, or enamel (do not apply Fissativo Universale EVO)
- If applied, wait for Fissativo Universale EVO to completely dry (about 3-5 hours at T=+23°C) before applying Multifondo EVO

Multifondo EVO must be sanded with 60-80 grit sandpaper.

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

MIX RATIO

Component A 93.4 parts by weight – Component B 6.6 parts by weight.

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

PREPARING THE MIX

Pour part B (catalyst) onto part A (paste).

We recommend pouring all the catalyst contained in the bag.

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 two components are pre-batched in their packaging, thus preventing mixing errors.

Scrape the sides and the bottom of the container, using a steel trowel, to make sure that all the paste is catalysed.

The mix has a pot life of approximately 60 minutes at a temperature of about 23°C.

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.

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).

In case of application on new cement or anhydrite screeds, new cement or gypsum-based rough plasters, smoothed concrete, gypsum panels or lightweight panels (WEDI-SCHLUETER), cementitious self-levelling layers, smooth cement panels, or wood, apply the mix using the SUPERFLEX Stainless steel trowel (Art. 203I0001) directly onto the previously prepared substrate (see “Substrate preparation”), creating a consistent skim coat about 1 mm thick.

In the case of slightly irregular supports, it may be necessary to apply an additional coat of Multifondo EVO in order to even the surface.

In case of overlaying on existing floors and coverings in ceramic, porcelain stoneware, mosaics, agglomerates, natural stone, and in case of existing, deteriorated, and “traced” screeds or plasters, two coats of Multifondo EVO must be applied, embedding the 2 x 2 mm anti-alkaline glass fibre Reinforcing Mesh in the first coat.

At least 12 hours must pass between the first and eventual second coat, and in any case the first layer must be hard and not scrapable on the surface.

Once the last coat of primer has set, or at least 12 hours after its application, sand either manually or with a handheld disc sander with 60-80 grit sandpaper, preferably light-coloured.

The purpose of sanding is to eliminate any ridges or unevenness and to obtain a smooth surface.

Then remove the dust that forms using a suitable vacuum cleaner.

When correctly applied, the product will completely hide the underlying layer.

The base coat allows the obtainment of a white coloured surface and evening out of the substrate surface for the subsequent application of the decorative textures Spaziocontinuo® or Starlike® Decor.

FOCUS

Underfloor heating

After at least 4 days from installation of the screed developed with Litocem or Litocem Pronto, the heating system can be used with a variable supply water temperature between +20°C and +25°C, kept constant for at least 3 days. Then set the maximum design temperature and hold it for another 4 days. At the end of this cycle, bring the screed back to ambient temperature and install the covering (see standard EN 1264-4).

Steps

Insert the NAF 150002 reinforcing profile along the external edges of the step, embedding it in the first coat of Multifondo EVO.

If the staircase is not in concrete, it is advisable to reinforce the entire step by inserting the 2x2 mm mesh in the first coat of Multifondo EVO.

Corners

Internal corner - If the corner of a wall needs to be reinforced, embed the Litoband SK Net tape into the first coat of Multifondo EVO.

External corner - If the corner of a wall needs to be reinforced, embed the reinforcing corner profile NAF 150002 into the first coat of Multifondo EVO.

Joints

When the first coat of Multifondo EVO is being applied, the static joints can also be sealed.

Firstly, the Litogap expanded polyethylene tubing must be inserted in the joint (positioning it at a depth no less than the width of the joint itself).

Then fill the joint with Multifondo EVO and apply the Litoband SK NET micropore reinforcing band, taking care to embed it in the levelling layer created with Multifondo EVO.

WARNINGS

- 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°C and +30°C inclusive
- The pot life is about 60 minutes at a temperature of +23°C. Be sure to mix only the quantity of product that can actually be used within this period of time
- The temperature of the substrate must be at least 3°C higher than the dew point
- Do not use on heating substrates that have not been properly prepared; on substrates subject to rising damp or with a residual humidity greater than 3-3.5% CM; on substrates in anhydrite with a residual humidity greater than 0.5% CM; on substrates in anhydrite with heating systems and residual humidity greater than 0.2% CM
- Do not use the product on damp substrates or substrates with rising damp phenomena
- Do not use on dirty or inconsistent surfaces
- Do not use on pre-existing varnishes, paints or enamels
- Do not use on low thickness lime, cement- or gypsum-based surface finishes
- Do not use on surfaces that are not fully cured and on substrates that have not been properly prepared
- 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 on PVC, laminates and linoleum
- 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
- Do not use the product for applications not stated in this technical sheet
- In casi dubbi consultare l'Ufficio di assistenza tecnica Litokol S.p.A.

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: dense amber liquid |
| Customs code | 35069190 |
| Shelf life | 24 months in original packaging in a dry place. |

APPLICATION DATA

| | |
|---------------------------------------|--|
| Mix ratio | Component A: 93.4 parts by weight |
| Mix ratio | Component B: 6.6 parts by weight |
| Appearance of mix | Thixotropic paste |
| Specific gravity of mix | 1.7 kg/dm ³ |
| Pot life | Approx. 60 minutes |
| Application | Superflex stainless steel trowel art. 203I0001 |
| Application temperatures | From +5°C to +30°C |
| Permissible relative ambient humidity | < 80% |
| Waiting time between coats | 12 hours |
| Waiting time for overlying | 12 hours |
| Temperature of use | From -30°C to +80°C |
| How to clean equipment | With water when product is fresh. Mechanically when product has set. |
| Consumption | 1.5 kg/m ² 1st coat - 1 kg/m ² 2nd coat |

PERFORMANCE

| | | |
|--|------------|-------------------|
| Compliance | SR | UNI EN 13813 |
| Resistance to abrasion/wear | AR 1 | UNI EN 13892-4 |
| Resistance to impact | IR 7 | 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 |
| Shrinkage | ≤ 1.5 mm/m | EN 12808-4 |
| Elastic modulus | ≥ 4000 MPa | Internal method |
| Resistance to humidity | Excellent | |
| Resistance to temperature fluctuations | Excellent | |
| Resistance to ageing | Excellent | |

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.

Sheet **n. 1001**
Revision **n. 1**
Date: **November 2021**

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.

Litokol S.p.A.
Via G. Falcone 13/1
42048 Rubiera (RE) Italy
Tel. +39 0522 622811
Fax +39 0522 620150
info@litokol.it
spaziocontinuo@litokol.it
www.spaziocontinuo.it

