**Wall & Floor**

# Hydrolux EVO

**TWO-COMPONENT CLEAR GLOSSY, SATIN, AND MATT PROTECTIVE FINISH. SUITABLE FOR OVERLAYING AND UNDERFLOOR HEATING. FOR INTERIORS. PRODUCT WITH VERY LOW VOLATILE ORGANIC COMPOUND EMISSION RATE. SURFACE PROTECTION AGAINST THE SPREAD OF BACTERIA.**

## DESCRIPTION

Two-component water-based aliphatic polyurethane clear protective finish for Spaziocontinuo® and Starlike® Decor decorative systems.
Available in glossy, satin, and matt versions, each with a different influence on the colour and therefore final look of the resin system.
**Satin Finish**: a semi-matt or semi-gloss finish obtained by searching for the perfect balance between light reflected in a specular and diffused way.
**Glossy Finish**: the light reflects in a specular manner with respect to the ray that hits the surface, thus making the nuances appear brighter and more lively.
**Matt Finish**: the light is reflected in a diffused manner with respect to the ray that hits the surface, thus making the colours appear lighter and more subdued.

## ADVANTAGES / FEATURES

- Product with very low volatile organic compound (VOC) emission rate, compliant with class A+ (Émission dans l'air intérieur – French Regulations)
- Enhances the decorative effects of the underlying textures
- Product with excellent fluidity and easy to spread
- Simple and fast mixing; mechanical or electrical equipment is not required
- Product exempt from restrictions for road, sea, air and rail transport
- Water-based product
- Final topcoat of Spaziocontinuo® decorative systems; makes them resistant to wear, yellowing, and stains
- Excellent resistance to intermittent contact with water and humidity
- Applicable by roller, brush, or airless
- Protects surfaces, making them non-absorbent, hygienic, and safe
- If applied on washable paints, makes them non-absorbent, resistant to stains and intermittent contact with water
- Compliant with HACCP protocol for decoration of food-grade environments
- Suitable for contact with foodstuffs
- If additivated with Additivo AntiScivolo, it gives the decorative systems SpazioCemento, SpazioResina, SpazioLamina, and ResinaArredo non-slip properties in wet areas as per standard DIN 51097. Suitable for shower enclosures and walkways in wet areas
- Surface protection to avoid the spread of bacteria, able to eliminate 99.9% of bacteria after 24 hours as per standard ISO 22196, and 99.7% of viral loads after 6 hours of contact as per standard ISO 21702

## 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
Indoor wet areas (bathrooms, shower enclosures)
Covering of furniture and structures in wood or metal

**Suitable substrates**
SpazioCemento EVO - SpazioResina EVO - SpazioLamina EVO
SpazioChiaroscuro EVO - SpazioMateria EVO - SpazioMetallo EVO
Neutralizzante EVO
Wood or metal substrates
Starlike® Decor
Washable paints (temperas need to be removed)
Smoothed concrete
Self-levellers

## PACKAGING

1.0 kg bottle part A + 0.2 kg bottle part B

## FIELDS OF APPLICATION

**Hydrolux EVO is the ideal solution to make any surface healthy**
In particular, it offers protection against weathering for all Spaziocontinuo® surfaces.
**Antimicrobial test**
Thanks to the support and certification of the University of Modena and Reggio Emilia, and with the collaboration of the third-party accredited laboratory ACCREDIA, it has been demonstrated that the surface obtained with Hydrolux EVO is protected against bacterial loads (tests carried out according to standard ISO 22196 on Eschirichia Coli, with a reduction of up to 99.9% after 24h of contact).
A copy of the certificate with the antimicrobial test results can be requested from the Litokol technical department.
**Antiviral test**
Thanks to the study conducted in collaboration with the Department of Pharmacy and Biotechnology of the University of Bologna, in the Microbiology laboratory – Sant'Orsola Hospital, Litokol found that the surface obtained with Hydrolux EVO is protected against viral attacks (elimination of up to 99.97% of SARS CoV-2 viral load, the virus responsible for COVID-19) after just 6 hours of contact and does not maintain an environment hospitable to the virus.
Product unique to its kind in the current market.
A copy of the certificate with the antiviral test results can be requested from the Litokol technical department.

## PREPARATION OF SUBSTRATES

The substrates must be clean, dry, solid, compact, without dust, properly cured and without rising damp.
All textures in the Spaziocontinuo resin system must be completely set and dry, then wait at least 12 hours, checking that no incisions are left when pressed with a fingernail.
SpazioResina EVO, SpazioLamina EVO Crudo and SpazioLamina EVO Perlato must be sanded with a single disc machine or sander with 100-120 grit mesh.
SpazioCemento EVO, SpazioChiaroscuro EVO, SpazioMetallo EVO and SpazioMateria EVO do not require sanding before the application of Hydrolux EVO.
Even after the application of Neutralizzante EVO as an oxidation passivating agent in SpazioLamina #Ossidato decorative systems, it is necessary to wait at least 12 hours for the oxidation process to be completely blocked.
Once the last coat of ResinaArredo EVO has been applied, it is sufficient to wait 3-4 hours before applying the Hydrolux EVO final topcoat (necessary only in case of wet floors and areas).
On Starlike® Decor it is necessary to wait 24 hours after the last layer.
In case of application on cementitious self-levelling layers, smoothed concrete, and wood, the surface must be sanded to open the surface pores.
In any case, before applying Hydrolux EVO, any dust and residue left behind by previous processes must be thoroughly vacuumed.
In any case, the respective technical data sheets must be consulted for correct use of the indicated products.

## MIX RATIO

Component A 83.3 parts by weight – Component B 16.7 parts by weight.
The two components are pre-batched in their respective packaging.

## PREPARING THE MIX

Pour all of component B into the bottle of component A, close with the under-cap and screw cap and shake vigorously until completely homogenised.
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.
Only in case of application on SpazioChiaroscuro EVO and SpazioMetallo EVO, the first layer of the protective topcoat can be diluted with 5% water to improve its fluidity.
In case of absorbent substrates, it is advisable to add maximum 10-15% water in the first layer.
In case of high ambient temperatures (near the application limits), a maximum of 5% water can be added.

## APPLICATION

Pour the previously mixed product into a clean container.
We recommend use of the Bucket for finishes (art. 240S0001) complete with grid and any spare parts (art. 240S0RIC) designed specifically for Spaziocontinuo® finishes.
Using the "Flocked Roller" (art 255R0001 or art. 256R0001), apply two coats of Glossy, Satin, or Matt finish Hydrolux EVO at least 3-4 hours apart.
In shower enclosures and wet areas, 3 coats of product are required. Spread the product evenly, avoiding build-ups and applying the subsequent coats in a perpendicular direction to one another.
The Flocked Roller art.255R0001 is 25cm long and is recommended for floors or large walls; its rounded form facilitates application, minimising defects.
The Small Flocked Roller art. 256R0001 on the other hand is specifically for walls, and thanks to its soft and convex end, allows application on corners and edges without needing to use a brush.

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.

## 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°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 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
- Use perfectly clean containers and tools
- 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
- Do not use the product on damp substrates or substrates with rising damp phenomena
- Do not use on dirty or inconsistent surfaces
- Before the start of application, check that the roller is not shedding
- Do not use on surfaces that are not fully cured and on substrates that have not been properly prepared
- Spread the product evenly to avoid creating build-ups in the overlapping areas, which become more evident once dry
- In wet areas due to direct contact with water, 3 coats of Hydrolux EVO must be applied
- After application and until the topcoat has completely set, avoid surface contamination due to dust deposits
- Protect the product against water for at least 24 hours after installation
- Non aprire al traffico la pavimentazione prima del completo indurimento della vernice protettiva (almeno 24 ore)
- Non utilizzare dopo 90 minuti dalla miscelazione
- Nel caso si utilizzi del nastro carta o carta gommata per delimitare delle aree o proteggere delle superfici è necessario rimuoverlo a prodotto fresco
- Non utilizzare il prodotto per applicazioni non segnalate su questa scheda tecnica
- 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: translucent liquid |
| Appearance | Component B: colourless clear liquid |
| Customs code | 32099000 |
| Shelf life | 12 months in original packaging in a dry place. |

## APPLICATION DATA

| | |
|---|---|
| Mix ratio | Component A: 83.3 parts by weight |
| Mix ratio | Component B: 16.7 parts by weight |
| Specific gravity of mix | 1.05 kg/dm$^3$ |
| Pot life | Approx. 90 minutes |
| Application | Flocked Roller art. 255R0001 - Small Flocked Roller art. 256R0001 |
| Application temperatures | From +5°C to +30°C |
| Permissible relative ambient humidity | < 80% |
| Waiting time between coats | 3-4 hours |
| Ready for use | 4-5 days |
| 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 | 0.14 kg/m$^2$ in two coats |

## PERFORMANCE

| Compliance | UNI EN 13813 - EN 15824 | SR |
|---|---|---|
| Resistance to abrasion/wear | AR 0.5 | UNI EN 13892-4 |
| Resistance to impact | IR 18 | UNI EN ISO 6272-1 |
| Adhesion to substrate | B>2.0 | UNI EN 13892/8 |
| Adhesion to substrate | 1.5 MPa ≥ 0.3 MPa | EN 1542 |
| Determination of dirt pick-up | Very low, ΔL < 3 | UNI 10792 |
| Resistance to UV rays | Excellent | ISO 11341 |
| Contact with foodstuffs | Suitable | Cod. 20/000278197 |
| Resistance to slipping (with Additivo Antiscivolo) | A | DIN 51097 |
| Static punching | PS2 | UNI 8298-3 |
| Resistance to water | Excellent (> 72 hours) | UNI EN ISO 2812-3 |
| Resistance to temperature fluctuations | Excellent | |
| Resistance to ageing | Excellent | |

## CHEMICAL RESISTANCE TABLE

The table provides a summary of the chemical resistance tests performed according to Regulation UNI EN ISO 2812-4

| Group | Name | Conc. % | 24 hours |
|---|---|---|---|
| Acids | Acetic acid | 5 | 🟢 |
| | Sulphuric acid | 50 | 🟢 |
| Alkalis | Ammonia | 25 | 🟢 |
| | Caustic soda | 10 | 🟢 |
| | | 50 | 🟡 |
| | Sodium hypochlorite | 5 | 🟢 |
| Oils and fuels | Olive oil | pure | 🟢 |
| | Lubricant oil | pure | 🟢 |
| | Diesel | pure | 🟢 |
| Solvents | Ethyl alcohol | pure | 🟡 |
| | Hydrogen peroxide | 25 | 🟢 |
| Staining agents | Ketchup | | 🟢 |
| | Vinegar | | 🟢 |
| | Wine | | 🟢 |
| | Coffee | | 🟢 |
| | Coca Cola | | 🟢 |
| | Tins | | 🟢 |
| | Hair dye | | 🟡 |
| | Permanent marker | | 🔴 |
| | Household detergents | | 🟢 |

| KEY | |
|---|---|
| 🟢 | RESISTANT |
| 🟡 | RESISTANT WITH POSSIBLE COLOUR VARIATIONS |
| 🔴 | NON-RESISTANT |

## 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.

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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