

Metallicum

Technical Data Sheet — Revision: 18/04/2025

Single-component water-based decorative coating, liquid metal effect, for elegant interior surfaces and contemporary.

Product Description

Metallicum it's an innovative single-component decorative coating based on polyurethane gel resins and special additives in aqueous dispersion, designed to reproduce the visual effect of liquid metal on interior wall surfaces. The balanced formulation allows for the creation of smooth, spatula-effect, or textured textures, with highly evocative and dynamic finishes, capable of enhancing modern, industrial, or designer-style environments.

The combination of materiality and metallic refraction It generates continuous and customizable surfaces, where light interacts with the structure to create depth, reflections, and iridescent hues. The final surface recalls the appearance and ductility of molten metals, making Metallicum a highly scenic and technical decorative solution.

The product presents itself as modular system, composed of a neutral base to be mixed with metal powders (copper, bronze, silver, brass, etc.), which allows to obtain custom effects, versatile and adaptable to any architectural or interior design project. Metallicum is eco-friendly, solvent-free, easy to apply, and compatible with treated surfaces in residential, commercial, or contract settings, helping to give identity and prestige to any surface. ■

Features and Performance

Authentic liquid metal effect Metallicum faithfully reproduces the fluid, reflective appearance of molten metals, with high chromatic definition and a surface rich in reflections, iridescence and visual depth. **Aesthetic flexibility** It allows you to create smooth, spatula-like or textured finishes, offering maximum freedom of expression based on the application technique and the tool used.

Customizable system Composed of a neutral base to be mixed with metal powders selected (silver, copper, brass, bronze, etc.) to obtain the desired effect, even in custom shades. **High adhesion and versatility** Thanks to its polyurethane gel formulation, it adheres perfectly to appropriately treated substrates such as smooth plaster, cement skim coats, plasterboard, wood, MDF and prepared interior surfaces.

Strength and durability The dried film has good mechanical resistance, elasticity and dimensional stability, ideal for indoor environments even subject to frequent use or where a certain resistance to contact is required. **Ease of application and extended workability** The extended open time and gel consistency allow for accurate and detailed work, with excellent flow that avoids unwanted marks and visual breaks.

Decorative solution with low environmental impact Solvent-free and low in VOC, Metallicum complies with the most advanced regulations regarding environmental sustainability and indoor air quality.

Fields of Application

Metallicum It is specifically formulated for the decoration of internal wall surfaces, where you want to obtain a liquid metal effect. Sophisticated and modern. Its aesthetic versatility and customization options make it ideal for a wide range of applications in residential, commercial, and corporate settings: Interior walls of homes, offices, retail spaces and public environments, to create material surfaces with a strong visual and tactile impact.

Masonry, plaster, concrete, gypsum and plasterboard surfaces, properly prepared and primed, to ensure optimal adhesion and durability over time. Contract environments such as showrooms, hotels, restaurants, boutiques and lobbies, where a distinctive and contemporary decorative covering is required. Interior design and urban style projects, for highly original creative interpretations, enhancing architectural volumes and backdrop walls.

Scenographic elements and artistic installations, thanks to the ease of modeling the product and the transformative metallic effect, capable of simulating the ductility of metals. Thanks to its eco-friendly formulation, at the chromatic modularity and the ability to create custom textures, Metallicum It is the ideal solution for interior surfaces that require technical performance, aesthetic refinement And design emotional.

Technical Features

Appearance Metallic gloss Colour in can Steel, Brass, Copper and Gold Density Kg/Lt 1,140 ± 0,05 Supply viscosity 25°C Thixotropic Volumetric dry residue 72 ± 2% Theoretical coverage 0,480 – 0,520 kg/m² in two coats Dilution Water if necessary max 2% Application method Stainless steel spatula Drying 25°C Touch free 1 - 2 hours Touch dry 3 - 5 hours Deep dry 18 - 24 hours Overcoating Minimum / Maximum 4 - 6 hours / no limitations Operating temperature -10°C +120°C

Storage

stability 12 months Standard packaging Kg 1 - Kg 2,500

Application Method

Surface preparation Correct preparation of the substrate and precise management of the application phases are essential to obtain the distinctive decorative and material effect of Metallicum.

Surface Preparation

Preliminary check Check that the surface is solid, dry, cohesive, and free of mold, dust, loose debris, or contaminants. Carefully remove any loose particles, old, flaking paint, efflorescence, or dirt by brushing, sanding, or low-pressure washing. Repairs In the presence of cracks, crazing, irregularities or uneven filling, intervene with suitable fillers or plasters until obtaining a compact and smooth surface.

In case of visible mold, treat with Atriathermika Sanitizer, leaving it to act for at least 3–4 hours before proceeding with the preparation. Primer and undercoat

- On new or already painted surfaces in good condition, apply a coat of Isoacryl diluted 1:7 with water.
- In the presence of powdery or poorly cohesive substrates, apply a consolidating primer coat Murofix, as is or diluted 1:1 with DSN-300, depending on absorption. Product preparation
- Add metal powder in the neutral base in small doses, mixing gradually with a low-speed mechanical stirrer or manually until a smooth, homogeneous paste is obtained, free of lumps or undispersed metal residues.
- The mixture thus prepared remains stable for 24–48 hours if stored tightly closed. Product Application Recommended tools: stainless steel trowel. Procedure 1. Spread an appropriate amount of product on the previously prepared surface. 2. Work and decorate with regular movements, depending on the desired effect (smooth, spatula-like, or textured). 3. If you want to increase coverage or layer the effect, apply a second coat 4–6 hours after the first, making sure the surface is dry. Final polishing After 12–18 hours, once completely dry, it is possible to carry out the surface polishing using 1000 and 3000 grit silicon carbide abrasive discs, mounted on a polisher with a suction system. Once finished, clean the surface with a microfiber cloth to remove any metal residue and enhance the shine of the liquid metal.

Tips and Notes

Environmental conditions of application

- Apply Metallicum exclusively in favourable climatic conditions, with temperatures between +5°C and +35°C And relative humidity ≤ 75%.
- Avoid application:
 - on damp surfaces, with rising damp or not fully cured;
 - in the presence of strong wind, imminent rain or direct sunlight during the hottest hours;
 - on overheated surfaces or with active saline efflorescence. Drying and finishing
- Respect the drying times between one coat and the next: at least 4–6 hours for any stratifications.
- The final polishing must be carried out only after complete drying (minimum 12–18 hours), to avoid surface damage or opacity.
- In low temperature or high humidity conditions, extend the times to promote correct polymerization. Mixing and preparation

- Do not store the product already mixed: metal powder must be added only before use, gradually and with careful mixing, avoiding the formation of lumps.
 - Prepare only the necessary quantity: the mixture has limited stability (24–48 hours if well closed and stored).
- Application precautions
- Do not apply the product on unstable surfaces, contaminated by oils, greases, mould or flaking paint .
 - Any application interruptions must be carried out in correspondence with corners or architectural elements to avoid visual discrepancies.
 - To maintain aesthetic uniformity, preferably use the same lot on adjacent surfaces.

Product storage

- Keep Metallicum in a cool, dry and well-ventilated environment, far from light direct sunlight, frost or heat sources.
- The neutral base and the powder must be stored in their respective containers well closed.
- Recommended storage temperature: +5°C / +30°C.

(*) This information is considered indicative only. The company reserves the right to change it without notice. It is the users' responsibility to verify suitability for their specific use.