

PURE[®] Metal

Information and technical support:

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PRODUCT DESCRIPTION

PURE[®] Metal is a decorative coating in a form of powder, composed of metal particles that allow achieving genuine cold spray metal effect.

- Easy to mix.
- Excellent adhesion.
- High resistance to flexion.
- Several finishes available: iron, tin, bronze, zinc, copper, brass, aluminum.
- Numerous effects possible: smooth, textured, corroded etc.

APPLICATIONS

PURE[®] Metal can be used in a number of ways:

- «Decoratively»: on walls and furniture.
- «Technically»: on countertops, stairs, floors and in bathrooms (not showers).

APPLICATION AREAS/SURFACES

- All rigid or flexible surfaces: tiles, painted walls, drywalls, wood, plaster, ferrous and non-ferrous metals, cements.
- When PURE[®] Metal is applied «technically», the surface must be sufficiently cohesive (1 MPa). It is obligatory to put fiber screed on floors.

NECESSARY TOOLS

PURE[®] Metal can be applied with different tools depending on desired effect and surface to cover: **knife, trowel, spatula, roller (except PURE METAL ALU[®]), brush, spray ...**

PURE[®] Metal can be sanded with different tools depending on desired effect:

- Manual or mechanical polishing: sandpaper 180-600 or sanding disc 180 to 600 (add steel wool 000 if needed) and/or a single-disk polisher.

Caution! Copper, Bronze and Brass finishers: steel wool may lead to blackening of the material.

SURFACE PREPARATION

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Clean the surface. Then:

- ✓ For tiles, glass and ceramics: degrease the surface and apply a light sanding for superior grip.
- ✓ For ferrous metals: remove the rust at least with a wire brush and lay anti-corrosion primer (consult us for more information).

- ✓ For a porous surface: implement our Grip Primer Mercadier (Standard NF Environnement – eco-friendly) to "block" the surface before application (plasterboard and plaster).
- ✓ For wood: implement our bonding undercoat "Accroche "
- ✓ For paint: wash and rinse.

Caution! When PURE® Metal is applied «technically», the surface must be cohesive and compression resistant: it is necessary to place layered polished concrete or a fiber screed (especially for floors).

MIXTURE PREPARATION

PURE® Metal is mixed with a liquid depending on desired outcome:

- Either water only;
- Or water and binder (proportions 50/50).

Mix the powder PURE® Metal with a liquid to obtain a homogenous pasty mixture, more or less liquid depending on desired effect.

Proportions of the mixture for exemple : 1 volume of liquid for 3 or 4 volumes of powder

Examples of proportions advised for an application with spatula:

PURE METAL® 1KG	LIQUID
ZINC	160G
FER	200G
ALU	296G
BRONZE	180G
CUIVRE	200G
LAITON	184G
ETAIN	120G

APPLICATION

Apply 1 to 2 layers of PURE® Metal (the second layer is applied once the first one is dry to touch)	
Trowel/ Knife/ Spatula	Effect of trowelled material
Brush	Corded Effect
Paintbrush / Inch Flat brush (buffered on the surface) or roller	Hammered Effect
Spray	Very smooth result without effect
PURE® Metal is very malleable, multiple decorative effects are possible with various tools (consult us or watch our videos on www.mercadier-decoration.com).	

FINAL DRYING / SANDING

Drying time: about 1 hour.

- Once the surface is completely dry, sand it. If a binder is used instead of water, do not wait for more than 2 hours before sanding since lengthy waiting time will make sanding harder.

Sanding can be done:

- Either manually with sandpaper grain 180 to 600 or an abrasive sponge (fine grain)
- And/or finish with a steel wool 000 depending on desired effect (caution! Copper, Bronze and Brass finishers: steel wool may lead to blackening of the material)
- Or mechanically with an orbital sander (grain 180, 400 or 600).

FINISH / PROTECTION AND TREATMENT

<p style="text-align: center;">WATER MIXTURE (object/furniture/decorative wall)</p>	<p style="text-align: center;">WATER+BINDER MIXTURE (table/counter/credenza/floor)</p>
<p style="text-align: center;">Apply solid wax (cloth or cotton wick) Leave it to dry</p> <p style="text-align: center;">Polish</p> <p style="text-align: center;"><i>Tip: For an even greater brilliance and a more pronounced metallic effect, use the "Mirror" (instead of wax) for metal. Caution: objects protected in this way should not be in contact with food.</i></p>	<p style="text-align: center;">Leave it to dry for 24 hours</p> <p style="text-align: center;">Apply the protection system suitable for your project:</p> <ul style="list-style-type: none"> * Impregnator Sealer + Mono Aqua Varnish: living room floors * Impregnator Sealer + Bi Aqua Varnish Floor: floors with high traffic * Impregnator Sealer + Solvent-Based Protector: bathrooms (except showers) <p style="text-align: center;"><u>In all of the three cases choose a satin or glossy sealer for shiny effect of PURE® Metal.</u></p> <p>* Refer to technical specifications of these products before application.</p>

RUSTY EFFECT

Rusty effect is obtained using the **PURE® IRON METAL**. Oxide effect is obtained using **PURE® BRONZE OR COPPER METAL**.

For this:

- Mix PURE® IRON METAL with water only.
- Apply PURE® METAL in 1 or 2 layers depending on desired effect.
- Wait until the product is completely dry.
- Sand carefully: grain 180, then 200, then 400... and dust off
- Apply MERCADIER Oxidizer.
- Leave for a few hours and then rinse.
- If the intensity of desired effect is not achieved apply MERCADIER Oxidizer again and wait until its effect is seen.
- When the process is finished, rinse again before applying a sealer (see §Protection and Maintenance).
- Rusty and green-gray effect will be more aesthetic with a matt finish.

Mixing of metals :

The powders can be blended together. However, cracks can appear with Zinc.

PERFORMANCE & PACKAGING & STORAGE

Consumption: 0.5 to 3 m²/kg or 350g to 2 kg/m² (depending on the surface) or:

- 60 ml - up to 0.4 m²
- 250 ml - up to 1.7 m²
- 1 kg - from 0.5 to 2.8 m²
- 5 kg - from 2.5 to 14.3 m²
- 10 kg - from 5 to 28.6 m²

For technical applications such as flooring, counter, wall, credenza, take an average of 500 g/m² per layer.

- Products are kept for 1 year in original unopened packaging away from frost, high temperatures or humidity.

RELATED PRODUCTS

- Acrylic Primer (eco-friendly)
- Bonding undercoat "Accroche "
- Solid Wax "Les Trois Matons"
- Impregnator Sealer + Mono Aqua Varnish: living room floors
- Impregnator Sealer + Bi Aqua Varnish Floors: floors with high traffic
- Impregnator Sealer + Solvent-Based Protector: Bathrooms (except showers)
- Impregnator Sealer + Bi component Solvent-Based Varnish: kitchen countertops
- Metal Oxydizer

Refer to technical specifications for application instructions.

RECOMMENDATIONS AND SAFETY PRECAUTIONS

- See the most recent version of this technical data sheet (see website www.mercadier-decoration.com). Our distributors and technical support are also at your disposal for any clarification.

- Decorative coating such as layered polished concrete is the material with a 'continuous aspect', seamless and almost without fractionation. Having certain flexibility, it accepts a slight surface deformation, but up to a certain extent. Thus, this decorative material is sensitive for surface movements (similarly to paint or any other decorative coating). If the surface suffers from substantial differential movements, decorative coating might become cracked despite any precaution measures taken while laying the product.

- Performance and durability guarantees for the decorative coating may be given only in case a complete system of MERCADIER products is used (primer, product itself, sealer) and strictly according to instructions for application and maintenance of the system. Thus, the manufacturer will not be liable for poor product's performance if an application did not conform to our instructions and if the integral system was not used.

- All the information, tips and advice relative to final illustration of MERCADIER products are given in good faith. They are based on knowledge and experience that MERCADIER has acquired so far regarding its products that were appropriately stored and handled, and applied in normal conditions. In practice, the differences between materials, surfaces and specific application conditions are such that provided information, written recommendations or given advice do not imply any warranty of merchantability other than the legal warranty against hidden defects.

- Colours and aspects in our color charts are indicative, and cannot be considered as contractual. The same is applied for boards and panels displayed at retail outlets. It is preferable to use identical samples as much as possible. These products lead to results with subtle differences that can also arise depending on application conditions (applicator's gestures, temperature etc).