

PUROMETALLO

Decorative coating with metallic effect

Description

The *PUROMETALLO* range consists of decorative compounds based on precious metals and water-based resins. The formulation of the products allows them to obtain exclusive metallic effects, smooth or textured and a high gloss finish.

Purometallo can be used creatively, but we propose three standard patterns :

LASTRA (*plate* , smooth , processed with trowel)

RILIEVO (engrave, processed with Ideal Work roller MT16)

STRIATO (processed with Ideal Broom bianca)

Features

All products in the *PUROMETALLO* range allow the creation of exclusive textures, transforming the surfaces treated into real metal. The exclusive composition of the tri-component pastes also allows modulating their colour shades and texture, providing the applicator an endless creative freedom. The pastes can be applied by spatula, roller or brush and can be mirror polished, roughly textured or in an oxidised finish (only Iron-Ferro).

The Product line consists of the following colours:

- *Oro - (Gold)*
- *Bronzo - (Bronze)*
- *Rame - (Copper)*
- *Peltro - (Pewter)*
- *Fiorentino (50% rame/copper + 50% (peltro /pewter)*
- *Ferro – (Iron)*
- *Corten (Activated Iron).*

When hardening occurs, *PUROMETALLO* creates a precious metal surface, resistant to and impervious to moulds and bacteria.

Uses

PUROMETALLO has been developed as a coating for walls and ceilings in shops, reception areas and solid furnishings.

We do not recommend using it on floors or in the presence of high humidity.

PUROMETALLO, with adequate prior preparation of the substrate, is applicable on:

- New and old mortar and lime-based plasters
 - Plasterboard surfaces
 - Concrete surfaces
 - Wooden, chipboard, plywood, MDF and similar products capable of accepting the system.
 - PVC backgrounds and fibre cement
 - metal surfaces
-

Application

Preparation of the surface.

The substrate shall look uniform, be dry and free of dust and spots from salts. If mould is present, the surface should be treated accordingly and the mould removed or nullified. Remove any possible efflorescence present and any loose friable material including flaking parts of old paints.

Apply one coat of *PUROMETALLO PRIMER* (no less than 250 g/m²) as a bonding primer by roller. After 3-6 hours, once completely dry, start to apply *Purometallo Coat*.

In the event of non-cohesive or crumbling substrates, first apply one coat of *Ideal Binder* diluted with 50% water by roller or brush.

Mixing

Mix Component A with Component B for approximately 2 minutes by low-speed electric mixer with plastic head until they form a uniform paste of whitish colour. Then, to the mix, add the metal-powder (component C) whilst continuing to mix at low speed until getting a perfectly amalgamated/homogenous mixture. We recommend always using low mixing speeds as the mixing action velocity can affect the product's rate of hardening. Use water to thin the mixture if needed. Add 5g of water at a time until you reach your desired consistency, no more than 20% of A+B.

We recommend periodically re-mixing the mixture to maintain its uniformity.

Content proportions:

Component A 10% + Component B 10% + metal powder (component C) 80%.

Application

The *PUROMETALLO* mixture, once mixed, can easily be applied by trowel or spatula to obtain a textured effect, or by brush or roller after proper dilution with water (depending on colour and substrate) for smoother, lamina effects.

Apply two coats. Second coat after about 4-6 hours.

Take care not to apply with too much pressure to avoid the support surface grinning through the material.

Allow the material to set 5-10 min before creating your own texture with a trowel or decorative rollers.

Let the surface dry for 24-48 h before sanding and polishing. The longer the drying-time, the harder the material and the polishing process gets harder.

For Corten activation, sanding and activation can be carried out 24 h after application.

Finishing

PUROMETALLO can be brought to the desired brightness and texture. We recommend only using tools provided with a speed regulator and dust removal / respiration system. Remove dust after each pass

Roughing, smoothing

- 24-48 hours after application, *PUROMETALLO* is ready to be polished.

- Ensure you wear the appropriate safety equipment: Body-suit, dust-mask, respirator, latex gloves, ear protection and earmuffs.
 - It is recommended to vacuum and clean with microfibre cloth after each pass to maximise the effect and life of the sand-discs.
1. Pass with a regular general-purpose sanding disc p100 (DO NOT USE NET DISCS).
 2. Pass with a regular general-purpose sanding disc p180 (DO NOT USE NET DISCS)
 3. Pass with Mirka Abralon sanding pads p1000-p2000, 1 pass with each
This is already a smooth, flat, consistent finished surface which you just need to clean until all dust is removed before applying the Purometallo Polish.
 4. For a higher shine continue sanding with 3000, 4000 and 6000 sanding pads (when sanding with the 3000/4000 you may see some discoloration in the surface. This is normal so continue sanding. The 6000 will remove the marks and bring out the shine.). Clean until all dust is removed and apply Purometallo Polish.

High polishing

1. Once sanding is complete, clean thoroughly with microfibre cloth until no dust remains.
2. Using a flex tool with Lambswool 150mm polishing pad and polishing paste (Mirka Polar Shine), polish until desired effect is reached
3. Let the surface sit for 10 to 20 min then clean thoroughly with a microfibre cloth until clean
4. Final step: apply Purometallo Polish with a cloth over the entire surface. Only 1 coat is needed.

Maintenance

Purometallo Polish is also used for maintenance.
Simply spray and wipe with a clean cloth when needed.

CORTEN (Activation of Iron-Ferro)

The application of *METALLO ATTIVATORE* (see technical sheet) on *METALLO IRON-FERRO* creates the CORTEN oxidised effect. To be carried out no sooner than 24 h before application.

1. Pass with thynex brush 240 in a criss-cross pattern.
2. Clean thoroughly with vacuum and microfibre cloth until no dust remains.
3. Apply Purometallo activator by spray bottle (do not dilute). Use in conjunction with a clean roller to avoid running marks. Take care not to roll in straight lines and not to apply pressure, as roller marks will appear later.
4. For a strong reaction 2 coats may be needed.
5. The full reaction will take 1 hour whilst full drying time is 3 hours.

Once completely dry, apply surface protection by roller: either 1 coat FX ECO (complete neutral effect) or 1 coat IDEALPU WB EASY (no primer required, slight colour enhancer). For both allow 8 hours to dry completely.

Technical Information

Touch drying time:	12 hours at 20 °C
Pot life:	30-60 min (depending on temperature)
Ready to be polished:	not before 48 hours at 20 °C
Application temperature:	do not apply at temperatures lower than 10 °C or higher than 30 °C and with over 80% HR.
Non-pigmentable product.	

Consumption

0.8 kg/m² -1.2 kg/m², depending on texture desired and background porosity.

Packaging / Storage / Disposal

Tri-component A=1 kg + B=1kg C (metal-powder) =4 kg and 1 kg
Can be stored for up to 12 months in a dry environment, between 5 and 30 degrees.

Precautions

Do not apply on fresh and naturally alkaline substrates, wait for full curing to occur, usually a minimum of four weeks. Do not use in situations where there is a constant presence of humidity or on damp backgrounds. Do not use the product after its potlife, even if the mixture viscosity may appear to allow it to be used.

Changes in production from batch to batch can cause slight chromatic/colour differences. Due to the production of fine dust during polishing, the applicator must wear personal protective equipment (handgloves, glasses, mask, overall, earmuffs)

IMPORTANT

All information contained in this data-sheet is based on the best practical and laboratory expertise. The customer is responsible for checking the product is suitable for purpose. The manufacturer does not accept any responsibility arising from incorrect application. We recommend testing the products on small areas prior to use on the jobsite. This data sheet replaces and annuls all previous versions. Data may be changed at any time. We also remind you that Ideal Work products are for professional use only. Ideal Work provides customers with training opportunities upon request. Whoever uses these products without authorisation shall take full personal responsibility and the outcome will be at their own risk.

- Rev. 06 dated 05.08.2021