

Metallo_Fuso

Metal powder-based decorative coating for interiors.

DESCRIPTION

Metallo_Fuso is a decorative coating for interior vertical surfaces, made from selected metal alloy powders, bi-component epoxy resin compounds, fillers and special rheological additives to guarantee excellent workability.

The application of **Metallo_Fuso** allows unique textures to be achieved, originally and exclusively enhancing the surfaces treated, transforming them into real metal.

Metallo_Fuso is available in **Tin, Copper, Brass, Bronze** versions.

APPLICATIONS

With appropriate measures in the application cycle **Metallo_Fuso** can be applied onto:

- New and old base hydraulic binder-based plaster.
- Pre-existing lime and gypsum plasters
- Plasterboard surfaces
- Concrete surfaces
- Pre-existing synthetic and mineral paints
- Various absorbent mineral conglomerates.
- Wooden, chipboard, plywood, MDF and similar surfaces
- PVC substrates
- Fibre-cement substrates

The surfaces must be suitably prepared following the methods in the **PREPARATION OF THE SUBSTRATE AND APPLICATION** section.

IDENTIFICATION FEATURES

Nature of the binder: epoxy and specific hardener.

Bulk density ISO 2811-1:

Metallo_Fuso Component A: 1.03 +/- 0.05 g/ml

Metallo_Fuso Component B: 1.09 +/- 0.05 g/ml

PREPARING THE MIXTURE

Mixing ratio: 0.5 l **Metallo_Fuso Component A** + 0.25 l **Metallo_Fuso Component B** + 3 kg **Metallo_Fuso metal powder (Tin / Copper / Brass / Bronze)**.

Preparing the mixture: homogenise **Metallo_Fuso Component A** to remove any sedimentation. Pour **Metallo_Fuso Component B** into **Metallo_Fuso Component A** and mix, using a mechanical mixer fitted with a spiral tool, until mixed completely. Add **Metallo_Fuso metal powder** gradually while constantly mixing mechanically, until a homogeneous, lump-free mixture is obtained.

The components cannot be mixed manually. Periodic mixing is recommended in order to maintain the homogeneity of the mixture.

If the viscosity of the mixture is to be reduced slightly, it is possible to add up to 3% water to the mixture obtained.

Mixture pot life: approx. 30 minutes at 25°C, RH=60%.

Drying time: to the touch approx. 6-8 hours; can be sanded after 24 hours.

WARNINGS

Mix the material thoroughly before application.

Do not apply on fresh/new and essentially alkaline substrates; wait for a maturation period generally lasting four weeks. Application on concrete surfaces has a decorative function only. Do not use in situations where there is a constant presence of water, i.e. inside tanks or similar. Do not use the product after expiry of its pot life even if the viscosity of the mixture would allow it. Changing the production batch can lead to slight colour differences.

The finished surface could highlight a natural oxidation coating, diversified in terms of texture, colour and luminosity. Do not use abrasive sponges to clean the surfaces.

PREPARATION OF THE SUBSTRATE AND APPLICATION

(Reference environmental conditions T=25°C, RH=60%)

The surface must be dry and have no dust or mineral salt spots.

If necessary, restore or consolidate the substrate using specific products.

Treat the surface with appropriate products in the presence of mould. Remove any salt bloom and any flaking old paint by brushing or washing.

Completely eliminate any raised layers of lime-based or tempera paint. Remove the dust deposits, smog and other by brushing.

In the presence of non-cohesive and crumbling substrates, apply a layer of **Decofix** (micronized wall primer) using a brush. Alternatively, for solid non-crumbling substrates, a layer of diluted **Novaprimer** (water-based pigmented acrylic sealer) can be applied using a brush. In the presence of particularly absorbent or critical substrates, a roll or brush can be used to apply a layer of **Fondo Universale** (covering base primer).

Use a spatula to apply a layer of **Metallo_Fuso** on completely dry surfaces.

Drying time: approx. 24 hours depending on the type of substrate, its absorption and on environmental conditions.

SANDING AND POLISHING

Sanding and polishing are necessary to achieve the aesthetic effect typical of **Metallo_Fuso**.

The use of tools fitted with speed variator and which can be connected to a dust extraction system is recommended.

On a completely dry surface, proceed with sanding using a sequence of abrasive discs from **150, 320, 500, 800** as the first phase. Start sanding with a 150 abrasive disc at low speed. Continue with the abrasive discs in succession and modulate the speed depending on the aesthetic result desired.

Continue sanding/polishing the surface with **1500, 3000, 6000** abrasive discs, always modulating the tool speed.

When the job has been completed, clean the surface with a microfiber cloth using a non-aggressive detergent (neutral).

PRECAUTIONS

The material must be protected from freezing and thermal shocks throughout the entire application process.

Do not apply if the air, support and product temperatures are lower than +10°C or higher than +35°C.

Do not apply in the presence of surface condensate nor in direct sunlight or on extremely hot surfaces (even if already in the shade).

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Do not apply on surfaces with salt bloom or subject to rising damp.

Environment humidity must be <75%; the humidity of the substrate must be <4%.

In order not to jeopardise the best achievement of the aesthetics and performance of the product, it is recommended to apply it in the aforementioned climatic conditions and to protect the surfaces for approx. 48 hours and, in any case, until the product has dried completely.

It is recommended to finish the job using the same production batch.

For correct use of the materials mentioned, dilution and application, read the relevant technical data sheet carefully.

Correct use of individual protection equipment (PPE) is recommended during all preparation phases of the substrate, products and application of the same.

CLEANING EQUIPMENT

Clean with water immediately after use.

COVERAGE

Metallo_Fuso: 0.6-1.8 kg/m² per individual layer; reference is made to the applications on smooth substrates with average absorption. It is good practice to determine the effective coverage via a preliminary test on the specific substrate.

COLOURS

Tin, Copper, Brass, Bronze.

PACKAGING

Packets:

Metallo_Fuso Component A: 0.5 l

Metallo_Fuso Component B: 0.25 l

Metallo_Fuso metal powder (Tin / Copper / Brass / Bronze): 3 kg

STORAGE CONDITIONS AND SHELF LIFE

The product must be used preferably within one year from the production date, if kept in its original unopened container and in conditions with suitable temperature.

SAFETY INDICATIONS

Directive 2004/42/EC:

Metallo_Fuso (high-performance bi-component paints)

EU limit value for Metallo_Fuso (cat A/j): 140 g/l (2010)

Metallo_Fuso contains max. 140 g/l VOC.

The product is subject to labelling pursuant to the regulations in force.

Use the product in compliance with the hygiene and safety regulations in force. Do not throw residues into the drain system, into waterways and onto the ground. After use do not disperse containers in the environment, leave the residues to dry well and handle them as special waste. Keep out of the reach of children. In the case of ingestion, seek medical help immediately.

For further information, please refer to the MSDS.

N.B.- COLORIFICIO NOVACOLOR guarantees that the information herein is provided to the best of its experience and its technical and scientific knowledge; however, it cannot accept any liability for the results obtained using these products since the conditions of application are beyond its control. We recommend that you always check the suitability

of the product for each specific use. This current edition supersedes all previous information sheets.