



### Description

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The TIFOO Copper metallizing coating spray is a copper-based specialty aerosol coating designed for the rapid and uniform coating of non-conductive surfaces.

It serves as an adhesion and base layer for subsequent electroplating processes and enables the metallization of a wide range of materials.

Using the Copper metallizing coating spray, a galvanic barrier layer can be created which, after acid copper plating (TIFOO Bright copper electrolyte), can be further plated with TIFOO Palladium electrolyte, TIFOO Nickel electrolyte, TIFOO Gold electrolyte Chamaeleon/Midas or TIFOO Silver electrolyte.

### Application Area

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The Copper metallizing coating spray is suitable for:

- Preparation of non-conductive materials for electroplating
- Metallization of 3D-printed objects, glass, ceramics, plaster and many other materials
- Creation of decorative copper effects
- Model making, prototyping, restoration and technical applications

### Suitable materials

Plastics, glass, ceramics, plaster, sealed wood and other solid, non-conductive materials.

### Not suitable for

Unsealed paper or highly absorbent materials without prior sealing or priming.

### Application

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#### 1. Surface Preparation

The surface must be clean, dry, dust-free and grease-free. TIFOO Electroplating degreaser is recommended for cleaning. Absorbent materials must be sealed or primed beforehand.

#### 2. Application

Shake thoroughly before use to ensure even distribution of the copper particles. Shake repeatedly during application. Spray the Copper metallizing coating spray thinly and evenly from a distance of approx. 15 – 25 cm (multiple thin coats are preferable to one thick coat).

For plastics, adhesion can be improved by using a suitable primer.

#### 3. Drying

- Allow 10 – 15 minutes drying time between coats
- Complete curing after 24 – 48 hours at room temperature

The coating layer is not abrasion-resistant. Handle coated objects with gloves only.



## Important Notes

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### Activation of Conductivity:

The Copper metallizing coating spray alone does not create a permanently electrically conductive surface. To achieve full electrical conductivity, the coated workpiece must subsequently be electroplated using TIFOO Bright copper electrolyte. This step must not be carried out on acid-sensitive objects.

Only through this acid copper plating step:

- existing oxide layers are dissolved
- a continuous metallic copper layer is formed
- the object becomes fully electrically conductive
- the workpiece becomes suitable for further electroplating processes (e.g. nickel plating, gold plating, chrome plating)

Without this galvanic activation step, reliable further finishing is not possible.

### General Notes:

- Perform a test spray on an inconspicuous area of the object before application.
- Apply the coating as thinly as possible to preserve fine details. Excessive thickness may cause cracking or reduced detail accuracy.
- Allow to dry completely before further electroplating.
- Do not use TIFOO Gold electrolyte Flash for subsequent gold plating on copper surfaces. Use TIFOO Gold electrolyte Chamaeleon (bath plating) or Midas (brush/pen plating) instead.
- Keep container stored securely and, if necessary, clear the valve by spraying briefly after use.
- Not suitable for surfaces exposed to heavy mechanical stress.

## Disposal

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Do not allow product residues to enter drains or waterways. Dispose of completely empty aerosol cans via appropriate recycling collection. Liquid residues and contaminated materials must be disposed of as hazardous waste in accordance with local regulations.

## Safety Instructions

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**DANGER!** Extremely flammable aerosol. Pressurised container: May burst if heated. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Collect spillage. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F. Dispose of contents/container in accordance with local/regional/national regulations. Repeated exposure may cause skin



dryness or cracking. Contains: Acetone, Ethyl acetate, Copper powder (modified with aliphatic acid), n-Butyl acetate.