

# metal coatings – cold-sprayable

## Surface solution:

- application of real-metal layers on almost any surface

## Application properties:

- diverse sorts of metal can be sprayed on any type of substrate
- processed surfaces with similar properties as cast metal
- many different surface conditions possible: glossy, mat, brushed, corrosion (rust)
- work pieces can be metallized in total or just in partitions
- small layer thickness allows coating of fine structures
- suitable for long-term use outside and inside

## Advantages:

- opportunities for prototyping, model construction and product design
- new opportunities for series production
- quick and flexible manufacturing (substitute to casting and forging)
- cost saving through material substitution
- time saving by less coordination and manufacturing efforts



Varus mask, museum Kalkriese  
GFK, aluminium coating, polished



shop counter, MDF  
aluminium coating, polished



sculpture, Ulrike Buhl  
aluminium coating, polished



notebook, plastic  
copper coating, green patinated

## Metal types

- aluminium
- nickel-silver
- bronze
- brass
- steel
- zinc
- stainless steel
- copper



shop fixture doorhandles, MDF  
aluminium coating, polished

## Potential substrates

- plastics
- metal
- plaster
- ceramic
- wood
- paper
- leather
- fibreglass
- cement
- terracotta
- cardboard
- glas ...



sculpture bust, pug  
bronze coating, patinated



mouse, ring, pen  
metal coatings, polished



diverse organic leaves  
metal coatings, patinated



grand piano, wood  
stainless steel coating, polished



Kompothem, plastic door  
brass coating, patinated

## Characteristics of cold-sprayed metal surfaces

- thermal conduction
- magnetism
- reactivity: corrosion (rust), patina ...
- anti-microbial (copper, alloys)
- layer dimensions: 50-100 µm



BMW-World Munich, artificial wood  
metal coating, polished

## Coatings and special surfaces

When a design idea takes shape, our dedication begins:

### Range of application

- prototyping in any research & development dept.
- artwork
- design objects
- model making/display construction
- store/booth construction
- architecture
- interior design
- small batch production

### Our service portfolio

- chrome optics
- PS metal, cold-sprayable metal surfaces
- soft-touch coatings
- special coatings and effect coatings
- prototype construction by cooperation partners
- glazes for metal and carbon
- High-End-Finish
- model making/prototype construction

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### project edition:

- 01 Chrome optics
- 02 Real-metal coatings
- 03 Kinderhilfswerk „Plan International e.V.“
- 04 Soft-Touch coatings
- 05 Italian motorcycles
- 06 Varus mask
- 07 Kinderhilfswerk „Plan International e.V.“
- 08 Architecture
- 09 P.S. - diversity in surfaces
- 10 Artworks Vol. 1
- 11 Haptic Surfaces
- 12 PS metal

# PS.

Surfaces



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PS Metal