P.S. Oberflächen

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real-metal coatings by cold spraying method

coating process

1. surface preparation: cleaning and if necessary application of filler
2. grinding, (sandblasting), primer
3. spraying of liquid metal (70-150µm)
4. drying
5. surface treatment: blasting, grinding, polishing, brushing, engraving, etc. (reduction 30-60 µm)
6. if desired further treatment for displaying patination, corrosion, seasoning, etc.
7. natural transformation of metal surface by-and-by
8. if necessary sealing by clear coat or oil (0-50µm)

areas of application

- (rapid) prototyping, model making
- product design
- architecture and interior design
- trade fair/booth construction
- exhibition samples
- design objects and artwork
- furniture design
- substitute for cast-/forged metal parts
- applicable for large-scale production
- product range: aluminium, iron, nickel-silver, stainless steel, brass, bronze, copper and different special alloys

surface properties

- applicable on any substrate: wood, metal, glassware, plastics, prototyping-/composite materials, etc.
- thermal conductivity, magnetic
- no electrical conductivity
- reactivity: corrosion, patina, etc. – can be created artificially as well
- partial coatings possible
- surface qualities: glossy, mat, brushed, etc.
- resistant to impact and stress, no peeling
- suitable for long-term usage out-/inside
- (UV-protective) sealing by clear coat or oil possible