



Drylac[®]

Chrome⁶⁺ Free Chrome (CFC) Powder Coatings



Powder Coating + Vacuum Metallization. For Chrome-like Finishes.

- Decoration
- Performance
- Productivity
- Ecological Friendliness



Drylac®



CHROME FINISH VIA VACUUM METALLIZATION

Chromed, reflective surfaces for metal parts are currently (re-)discovered by industrial designers in the automotive and other industries as trend effect for high value parts and products.

TIGER Coatings presents a green method together with its partner Schwing Engineering to produce highly decorative chrome-like finishes by combining high performance powder coating and vacuum metallization such as the SLC® (Surface-like-Chrome) by Schwing Engineering (Pat. No. EP 0632 847 B2 /5,656,335)

The vacuum metallization with CFC Powder Coatings:

- offers a shiny chrome-like finish and a large variety of transparent colors, hues and effects
- makes various metals and alloys as target material possible
- shows convincing product performance such as corrosion resistance, edge and corner protection or low sensitivity to fingerprints
- increases productivity, e.g. by eliminating process steps like sanding or buffing
- is a safe process for man and environment
- substitutes the use of hexavalent chrome [= Cr⁶⁺]

APPLICATIONS

- | | | |
|---------------------|-----------------------|--------------------|
| • wheels | • headlamps | • ventilators |
| • handles | • reflector housings | • cladding |
| • grills | • sanitary facilities | • barrier posts |
| • door knobs | • frames | • motorcycle parts |
| • fenders | • furniture | • etc. |
| • bathroom fixtures | • roof racks | |

OEM APPROVALS FOR SLC®



PORSCHE

CITROËN

MERCEDES

VW

ROLLS ROYCE

SMART

PEUGEOT

BENTLEY

JAGUAR

CHROME⁶⁺ FREE CHROME (CFC)

A GREENER FINISH. FOR A BETTER WORLD.

HOW THE VACUUM METALLIZATION WORKS

The process consists of 3 steps:

- 1) The pre-treated substrate is powder coated with TIGER Drylac® CFC UltraGloss featuring hyper-flow and hyper-reflection. An additional primer preceding the CFC UltraGloss, the super flow TIGER Drylac® CFC Base, is only required for rough surfaces and/or outgassing substrates.
- 2) After curing the powder coating, a thin metal film is deposited via vacuum deposition such as the SLC® process. The choice of the metal (target) determines the corrosion resistance, the color, the brightness and the brilliance of the total system.
- 3) Finally the metal coating is sealed with TIGER Drylac® CFC Top to enhance the depth of appearance, shine and corrosion resistance, hence serving decorative and functional purposes.



Example for vacuum metallization: SLC® (Surface-like-Chrome) by Schwing Engineering (Pat.No. EP 0632 847 B2 /5,656,335)
Multi-Layer-System for smooth and rough surfaces | non-outgassing and outgassing substrates

		DFT min. dry film thickness
TIGER Drylac® CFC Top		50 µm
Vapour-Deposited Metal		200 nm, < 1 µm
TIGER Drylac® CFC UltraGloss		50 µm
TIGER Drylac® CFC Base (optional)		50 µm
Substrate (metals, plastics, compound materials, glass, etc.) temperature resistance > 200° C		

Conventional method: Chrome plating (Electroplating)

		DFT dry film thickness
Chrome		0,3 µm
Nickel - Corrosion Resistance		8-15 µm
Copper - 2nd Layer „Gloss Layer“	}	15 - 20 µm
Copper - 1st Layer „Leveller“		
Substrate		



A COMMITMENT TO GREEN COATING

The CFC Powder Coatings are TIGER Coatings' commitment to providing innovative products to the industry, that are both cost effective and help to preserve the environment and its natural resources.

We assume responsibility for and respect our environment and operate our business in harmony with nature and the sustainability of its resources.

The TIGER green label is assigned to coating solutions that save energy and resources through a minimized environmental footprint, e.g. powder coatings with anodizing effects, VOC free powder coat finishes for MDF or environment-friendly alternatives for the conventional chrome plating process.

