

Cathodic dip-painting for framework

Cathodic dip-painting (CDP) processes, in combination with a pre-treatment that is appropriate for the base metal, fulfil the most demanding requirements regarding the look and corrosion resistance of end products. During the dipping process, which uses state-of-the-art and fully automated equipment, cost-effective and very hard, uniform layers are deposited, even on very complex structures and inner surfaces such as tubes. The ecologically friendly, water-based black coating has a very high temperature stability and an excellent resistance to chemical substances. Due to its excellent adhesive characteristics onto the base metal, CDP provides excellent corrosion protection and is an ideal primer layer, for wet or powder-based painting processes.



Exterior mirror for cars

Material: aluminium

Requirements: overpaintability, aesthetics, resistance to corrosion for more than 1000 hours

Solution: degreasing in a caustic solution + Cr(VI) free passivation + CDP coating of 20-30 µm

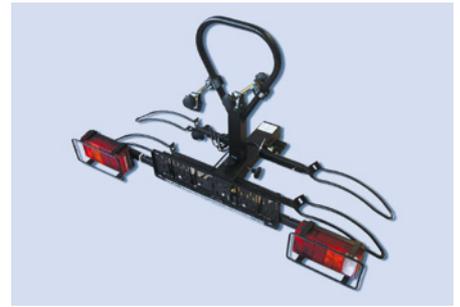


Bent pipe parts

Material: galvanised steel

Requirements: painted black, stone-impact resistance, corrosion resistance for more than 1000 hours, including a cathodic protective effect

Solution: Zinc-phosphating + Cr(VI) free passivation + CDP coating > 35 µm



Bicycle rack for cars

Material: steel

Requirements: aesthetics, UV resistance, the highest protection against corrosion and the effects of salt water (especially in cavities), very good resistance to scratching and the impact of stones

Solution: Zinc-phosphating + CDP + powder coating layer

Basic substrate materials

Steel · galvanised steel · cast-iron · aluminium alloys · magnesium alloys

Pre-treatment processes

Vibratory grinding · shot-blasting · alkaline degreasing · pickling · zinc-phosphating · Cr(VI)-free passivation

One-stop service

Max. part sizes	2.100 x 800 x 1000 mm
Max. part weight	300 kg
Layer combinations	CDP, CDP duplex coatings such as CDP+ wet painting, + powder painting, + Zinc lamellas, + galvanic Zinc, + Zinc alloys

Performance characteristics

Colour	black, similar to RAL 9005	Resistance to chemical substances	fuels, brake fluid, oil, acids pH>3, alkaline solutions pH<11 and common solvents
Layer thicknesses	15 – 35 µm	Stone impact and scratch resistance	very high
Corrosion resistance	(DIN 9227) CDP up to 1000 h, CDP + up to 2000 h	Adhesive strength Certification	(Cross-cut DIN 53151) GT 0 with all automobile manufacturers
UV resistance	only in combination with an additional covering of paint		
Temperature	stable to 150°C		

Services

We will consult with you on specific requirements to find a tailored coating process for your components. All relevant processing steps will be reviewed and agreed upon with you – from initial sampling to the start of series production. In addition to our technical services we can offer you a tailored logistics package, including pick-up and delivery service, on request.