

Decorative powder coating for highest quality requirements (FlexiColor®)

The metal surfaces of a wide range of components, casings and covers must be protected against corrosion and weathering as well as being impact-proof and scratch-proof. They also must look good and offer the user a firm grip on the object. Electrically conductive surfaces are given all these properties by means of powder coating. Powder coating uses an electrically conductive workpiece, which is coated with powder paint. During this process, electrically charged particles of the coating powder and the workpiece that is to be coated attract each other. The powder is charged by an electrode in the spray gun. The workpiece is grounded - so that an electric field is formed between the workpiece and the gun. This field transports the powder particles to the material's surface. The subsequent curing of the coated materials at temperatures between 160 and 200°C ensures that the applied powder particles are interconnected to form a smooth and even surface finish. The powder paints (on a polyamide, epoxy or polyester resin basis) offer good protection against scratching, impact, corrosion and the weather. Powder paints are available in almost all RAL colors, offering various levels of gloss and texture, and can also be used for decorative purposes. Impreglon's solution for this process is the environmentally friendly FlexiColor® process.

Impreglon uses state-of-the-art nano-conversion layers on a in order to ensure excellent adhesion of the powder paint on metal substrates and excellent corrosion protection even of damaged paint surfaces.



Vehicle panelling

Material: sheet metal

Requirements: high corrosion protection, excellent visual appeal

Solution: degreasing, nanoconversion, Flexicolor®

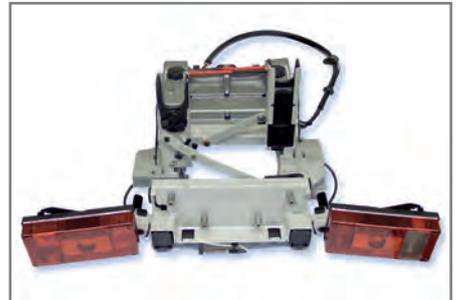


Devapour casing

Material: aluminum

Requirements: antibacterial texture coating for medical use, excellent resistance against chemicals

Solution: degreasing, etching nanoconversion, Flexicolor®



Car bicycle rack

Material: steel

Requirements: corrosion protection, impact resistance

Solution: degreasing, nanoconversion, FlexiColor®

Basic substrate materials

Most metals and almost all electrically conductive materials

Pre-treatment processes

Degreasing · etching · passivating

Performance characteristics

Coating thickness	35 µm to 600 µm
Temperature range	-40°C to 160°C depending on the coating type
FDA compliant	yes

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.