



CATHODIC DIP COATING

Cathodic dip coating is a coating method in which the object to be painted is immersed into water-dissolved paint with a low solids content. By applying a direct current between the object to be painted (cathode) and a counter electrode, deposition of high solids content is achieved, which produces a film with excellent corrosion protection properties after subsequent curing. **Cathodic dip coating** is frequently the first choice as a basecoat for powder and colour coatings.



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PROCESS FLOW

With cathodic dip coating, the components to be coated, which are placed in a dip basket or suspended from appropriate fixtures, pass through various pre-treatment stages, depending on the condition as delivered and the base material. They are then automatically transported to the cathodic dip coating basins with the electrophoretic paints. These consist of three main components: binding agent, pigments and solvent. Except for a proportion of less than two percent of organic substances, the solvent consists only of water. The heavy-metal-free coating system enables uniform coating thicknesses of 10 to 35 µm (thick-film quality). It is characterised by good wrap-around properties, so that even cavities and hard-to-reach areas of the component can be coated easily.

CHARACTERISTICS

- suitable for steel, iron materials, cast materials, galvanised iron materials, aluminium, magnesium
- achievable layer thicknesses of between 15 µm and 35 µm
- meets global specifications of the automotive industry
- excellent adhesion
- basecoat for powder and colour coatings
- resistant to chemicals such as common fuels, brake fluids, oils and solvents



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