



## MECHANICAL PROBLEMS IN POWDER COATING

### 1.1 Poor impact and chemical resistance

Possible Causes	Solution
Insufficient curing of coating	Check oven temperature and curing time
Insufficient or faulty pretreatment	Test pretreatment if necessary, contact pretreatment supplier
Film thickness too high/low	Check system parameters

### 1.2 Poor abrasion resistance

Possible Causes	Solution
Insufficient curing of coating	Check oven temperature and curing time
Packaging causes abrasion to powder coat surface	Use suitable packaging/foils to wrap work pieces
Abrasion during mechanical treatments	Carefully handle work piece in manufacturing steps to prevent deformation
Film scratches easily	Select suitable powder coating for purpose Consult powder manufacturer

### 1.3 Poor corrosion resistance

Possible Causes	Solution
Insufficient or faulty pretreatment	Test pretreatment if necessary, contact pretreatment supplier
Insufficient curing of coating	Check oven temperature and curing time, increase curing temperature or time. Consult powder manufacturer
Inappropriate powder coating	Use appropriate powder coating Consult powder manufacturer

### 1.4 Poor scratch resistance

Possible Causes	Solution
Insufficient curing of coating	Check oven temperature and curing time