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Kehtib alates: 25.09.25



Powder coating quality requirements

## 1. General

This document defines the visual and technical quality criteria that powder-coated parts must meet.

## General criteria:

- All parts must be evenly coated without visible defects.
- The coating layer must have the appropriate thickness: (e.g. 60–80 μm). If a primer is applied, a thicker layer is required (starting from 120 μm). If the material already has a zinc layer, this thickness must also be taken into account.
- Inspection is carried out from a distance of 1–2 meters.

Note! If the acceptability of a defect depends on its location, defects found in the visible area are treated more strictly. Where a defect that would be acceptable elsewhere significantly impairs the product's aesthetic appearance or causes visual disturbance, it is considered non-compliant even if technically permissible elsewhere.

## 2. Permissible Deviations (to a limited extent)

Type of defect	Permissible extent
Small defects (dust	Maximum 2 spots / m², diameter up to 0.3 mm
particles, hairs, bubbles,	
etc.)	
Orange peel effect	Slightly perceptible, if it does not affect functionality or
	appearance
Uneven coverage	Only in areas with minimal visual impact (e.g. hidden surfaces)

## 3. Non-Permissible Defects

Type of defect	Desciption/Example
Runs and drips	Paint accumulations clearly visible
Large defects (dust particles,	Spots $> 0.5$ mm or more than 2 spots $/$ m <sup>2</sup>
hairs, bubbles, etc.)	
Uncoated areas	Any areas where metal is visible or coating is insufficient
Cracking, peeling	Separation of the paint layer
Grease, oil or silicone residues	Insufficient surface preparation
Mechanical damage	Scratches, dents, cracks, or defects caused during transport
Color deviation	Noticeable tone difference within the same product
Glossy surface	Insufficient heating