

Performance properties are measured according to ECCA (European Coil Coating Association), EN (Euro Norm) and ASTM (American Standard Test Methods).

Test methods

EN 13523-1 Coating thickness	Dry film thickness all layers: approx. 30 micron with approximately 10 micron primer (Definite setup depends on actual color)
EN 13523-2 Specular gloss topcoat	Gloss measured by 60° Gardner: 20 up to 40 g.u.
EN 13523-3 Color differences topcoat	Measured according Cielab D65/10°: ΔE (CMC) ≤ 1 for light colours (non-metallics) Metallics are visually judged according to standard and are batch and paint-directional sensitive !
EN 13523-4 Pencil hardness	Minimum: HB
EN 13523-5 Adhesion to cracking on rapid deformation	Reverse impact resistance measures by 7.5 Nm/mm: No cracks
EN 13523-6 Adhesion to cracking on rapid deformation after indentation	Cross hatching (parallel and perpendicular on paint direction) and reverse impact test EN 13523-5: Loss of adhesion: \leq GT1 (More than 95% remains on the surface)
EN 13523-7 Resistance to cracking on bending	Initial bending through 180° on flat material up to temper H44 Minimum T \geq 1,5 (bending 4 times): no cracks *Actual T-bend and correlating bending radii depending on substrate
EN 13523-8 Resistance to salt acid spray fog	After 1000 hours: Average creepage on scribe to bare metal max. 2 mm (corrosion index 3 according EN 1396, table C.4)
EN 13523-10 Resistance to accelerated weathering topcoat	After 1000 test hours (= 500 hours UV-B): Slight color change allowed and gloss reduction \leq 10% of the original gloss
EN 13523-11 M.E.K. / Solvent rubbing test	\leq 100 MEK (Methyl-ethylketon) double rubs: No base material visible
EN 13523-14 Measurement of chalking	After 1000 Q-UV test hours (= 500 hours UV-B): Chalking \leq 10%
ASTM D2247-68 Humidity resistance	After 1000 hours: No influence
Warranty	30 years Platinum

In this document general product properties are described. Please contact our Customer Technical Support department in case more information is needed on the final end use of the material.