

SCRATCH-RESISTANT POWDER COATING

For surfaces for daily life

- unprecedented scratch and abrasion resistance
- stressed surfaces remain beautiful longer
- less is more: ONE layer for protection and shine

NEW QUALITY

The new highly resistant powder coatings from Wörwag make surfaces extremely hard-wearing with only one coating – without compromising on color, gloss or any protective properties for a very long time. This development has combined the best features of abrasion resistance and scratch resistance into one powder product: Lacquered aluminum parts remain in good condition for far longer.

HARD TO BEAT RESULTS

The quality of the new powder excels in 14 tests. In comparison with commercially available powder coatings, Wörwags Scratch-Resistant Powder coatings offer up to 30 percent more scrub and wrinkle resistance and this with a constant glow (measured by standardized tests). Similarly, the residual gloss is almost 100 percent in these tests, while comparable powders underperform by 15 to 30 percent.



COMPARING WÖRWAG'S HIGH-SCRATCH-RESISTANT POWDER COATING

	Hybrid powder coating		Commercially available coating	
	SD/Temp	Result	SD/Temp	Result
Curing requirement	10 / 160 °C			
Color type	Silver metallic			
Gloss	77 - 81 µm	76 GE at 60°	68 - 75 µm	73 GE at 60°
Erichsen test	69 - 72 µm	8 mm	68 - 73 µm	7 mm
Impact test				
- concave	65 - 75 µm	140 ip	79 - 84 µm	80 ip
- convex	65 - 75 µm	80 ip	79 - 83 µm	20 ip
Scratch resistance:				
- residual gloss 10 DH		88 %		58 %
- residual gloss 100 DH		99 %		71 %
- black abrasion 10 DH	76 - 84 µm	no	72 - 77 µm	no
- black abrasion 100 DH		slightly		slightly to middle
- Scratch line evaluation		no roping		slightly roping
Abrex: 10.000 cycles	69 - 75 µm	2	68 - 73 µm	3
Chemical resistance:				
- Cleanser basic		5		4
- Food	70 - 80 µm	5	65 - 71 µm	5
- BuAC/EtAC		1		1
- Solvent naphtha 135/180		5		5

