KA-PPF

- ✓ Has Uniform Coating Surface
- ✓ Has Good Durability In Top-Coating Performance
- ✓ Keeping Self-Healing Performance Longer

Properties		Value	Test Method
Physical Properties	Thickness (Substrate)	160±15 μm	Thickness gauge
	Thickness (Overall)	290±15 μm	Thickness gauge
	Elongation at Break	240%	ASTM D412
	Tensile Strength	8.1 kgf/inch	ASTM D412
Adhesion	Adhesion Force	650 gf/inch	JIS K 6854-2
	Type of PSA	Acrylic PSA	-
	Residual Adhesive	None	Put on painting plate then peel off with reverse direction after exposuring to 80C for 24hr, -4C for 24hr, 20C for 12hr in sequence
Optical Properties	Gloss	>95%	Glossmeter (@60°)
	Surface Uniformity	No deformation (crater, pin-hall, fish-eye)	Put on orange peel test plate / Sensory Tester
	Transmittance	Blackish	Put on black acrylic plate /Sensory Test
		Transparency	Put on transparent acrylic plate /Sensory Test
Surface Properties	Anti Scratch (5pt)	2pt	Copper brushing @RT (20℃)
	Self-Healing @RT (1hr, 5pt)	2pt	Copper brushing @RT (20℃) Stand-alone under RT (20℃)
	Thermal Recover (70℃, 5pt)	5pt	Copper brushing @RT (20℃) Exposure to hot water (70℃)
	Chemical Resistance	No damaged for 60seconds	DMF (Dimethylformamide)
		No damaged for 500seconds	Carburetor cleaner (CARB CLEANER)
	Surface Enthalpy	< 38	Dyne pen

	Hydrophobicity	R9~R10	JIS P-8137
	Anti-Fouling	Easily Erasable	Permanent pen
	Stickiness @80C	Smooth not sticky	After aging under 80°C for 1hr.
Durability	**For Self-Healing**	Recover to 70% @20C 25~35min. at 1st year 30~40min. at 3rd year	Measure Self-Healing performance with time on stream
	For Surface Enthalpy	No any drop	After immerse in 70C water-bath for 12hrs
	For Anti-Fouling	No any drop	After immerse in 70C water-bath for 12hrs
	Discoloring	ΔE < 1.0	QUV Tester (6500W) 2000hrs Measure Lab
	Guarantee Period	5 years	for Yellowing, Crack, Residual Adhesive