

## Ultimae Shield Matte

- ✓ Surface Is So Smooth
- ✓ Has Good Durability In Top-Coating Performance
- ✓ Keeping Self-Healing Performance Longer

	Properties	Value	Test Method
<b>Physical Properties</b>	<b>Thickness (Substrate)</b>	188±15 μm	Thickness gauge
	<b>Thickness (Overall)</b>	260±15 μm	Thickness gauge
	<b>Elongation at Break</b>	289%	ASTM D412
	<b>Tensile Strength</b>	9.65 kgf/inch	ASTM D412
<b>Adhesion</b>	<b>Adhesion Force</b>	699 gf/inch	JIS K 6854-2
	<b>Type of PSA</b>	Acrylic PSA	-
	<b>Residual Adhesive</b>	None	Put on painting plate then peel off with reverse direction after exposing to 80C for 24hr, -4C for 24hr, 20C for 12hr in sequence
<b>Optical Properties</b>	<b>Gloss</b>	28.5%	Glossmeter (@60°)
	<b>Surface Uniformity</b>	No deformation (crater, pin-hole, fish-eye)	Put on orange peel test plate / Sensory Tester
	<b>Transmittance</b>	-	Put on black acrylic plate /Sensory Test
		-	Put on transparent acrylic plate /Sensory Test
<b>Surface Properties</b>	<b>Anti Scratch (5pt)</b>	4.0pt	Copper brushing @RT (20°C)
	<b>Self-Healing @RT (1hr, 5pt)</b>	4.5pt	Copper brushing @RT (20°C) Stand-alone under RT (20°C)
	<b>Thermal Recovery (70°C, 5pt)</b>	5.0pt	Copper brushing @RT (20°C) Exposure to hot water (80°C)
	<b>Chemical Resistance</b>	No damaged for 20seconds	Spraying carburetor cleaner Mixture of methanol, acetone, toluene and white spirit (#200)
		No damaged for 35seconds	DMF (Dimethylformamide)