

PLATOP 800 (HN)

TYPE	<p>PLATOP No. 800 (HN) is a two-component reactive curing polyurethane paint based on acrylic polyol and polyisocyanate.</p> <p>It is the improved version of the original (Platop No. 800(N)). While retaining the strengths of the original product, the hardness and solvent resistance are improved.</p>
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CHARACTERISTICS	<ol style="list-style-type: none"> 1. Excellent in adhesion for various plastics and substrates. The adhesion stability especially for polycarbonate substrate has significantly improved. 2. Physical properties such as Solvent resistance, chemical resistance, surface hardness are excellent. 3. Excellent weathering durability and color fade resistance for automotive cars and other purposes. 4. From matte to full gloss, it is possible to match the glossiness to a high accuracy.
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TYPES OF HARDENER	<ol style="list-style-type: none"> 1. PLATOP 800 Hardener IP-60 (Standard Grade) 2. PLATOP 800 Hardener E-70 (Flexible Grade)
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APPLICATION SPECIFICATIONS

Methods of application	Manual or auto air spray	
Paint	PLATOP 800 (HN) Various Colors (Solid, Metallic, Pearl)	
Hardener	PLATOP 800 Hardener IP-60	PLATOP 800 Hardener E-70
Mixing Ratio (Base/Hardener)	8/1 (weight ratio)	8/1 (weight ratio)
Thinner	Thinner No.6000 series / Thinner No.7000 series	
Viscosity	10 ~ 14 seconds (NK-2 Cup)	
Pot life	4 hrs (at room temperature)	
Spray gun nozzle	0.8 ~ 1.5 mm Ø	
Spray air pressure	0.3 ~ 0.5 MPa (3 ~ 5 kg/cm ²)	
Drying condition	80°C x 30 minutes	
Dry film thickness	20µm (± alpha)	

Remarks:

1. Stains on application surface such as oil will affect the adhesion, please clean substrates adequately.
2. Stir base paint thoroughly until uniform before using, and ensure paint is stirred continuously even during application.
3. Base / Hardener mixing ratio must be weighed accurately.
4. As this paint is 2-pack type, curing reaction start gradually after mixing with hardener, please use up the mixed paint within the pot life. Higher ambient temperature and higher initial viscosity might shorten the pot life.
5. Hardener shall be sealed tightly and kept in cool and dark place due to its reactivity with moisture.
6. The film thickness is very important for the property. It needs to be kept as indicated.
7. The above is only a recommended specs, coater has to do own adjustment and study the best condition to achieve good paint film appearance.

Suitable substrates for application

Polycarbonate ,ABS , PPO , Polyamide , PVC , Polyurethane, Polyester (PET, PBT, SMC)



Film Properties

Paint : PLATOP No.800 (HN) 001 Dark Gray (using Hardener IP-60)

Substrate: Polycarbonate

Force Dry at 80°C x 30min, test after post drying (at room temp) it for > 72 hrs

Test Items	Test Condition	Result	
Pencil hardness	Pencil scratch hardness (Mitsubishi pencil uni)	2H	
Adhesion property	Tape adhesion at 100 mesh crosshatch by 1mm	100/100	
Impact Resistance	Dupont R=1.27cm, W=2.94N, H=20cm	No abnormality	
Resistance to water colour change	Distilled water spot 55°C x 4hrs	$\Delta E=0.30$	
Resistance to alkali colour change	0.1N NaOH Spot test, 55°C x 4hrs	$\Delta E=0.30$	
Resistance to acid colour change	0.1N H ₂ SO ₄ Spot test, 55°C x 4hrs	$\Delta E=0.30$	
Tack-free test	5 ply gauze 70°C x 2hrs, W=4.9N (0.5kg f)	No mark	
Volatile oil resistance	(n-hexane/n-heptane=1/1) dipping, normal temperature x 24h	No abnormality	
Abrasion resistance	(Wet Cloth) W=9.8N (1kg f), 5 ply Gauze, rub 500 times, stroke 100mm	Color fade Abrasion	No abnormality No abnormality
	(Dry cloth) W=19.6N (2kg f), 5 ply gauze, rub 200 times, stroke 100mm	Color fade Abrasion	No abnormality No abnormality
Humidity resistance	50±1°C X 95%RH x 240hrs	Appearance	No abnormality
	Cross hatch tape adhesion at 100 mesh by 1mm	Adhesion	100/100
Accelerated weather test	Fade-O-Meter x 400hrs	Color dif	$\Delta E=0.30$
		Gloss (60°)	No change

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