

PLATOP 800 (N)

TYPE	2 component polyurethane paint base on acrylic polyol and polyisocyanate
CHARACTERISTICS	<ol style="list-style-type: none"> Shows high adhesive strength over various plastic parts. Excellent chemical resistance such as solvent and other chemicals and excellent physical property such as impact resistance. Excellent weathering resistance which can meet various specifications. Able to achieve good leveling appearance.
USES	Car interior, precision instrument, optical car exterior, construction machine etc.
SUITABLE MATERIALS	ABS, PPO, PA, PVC, PBT, PET, Magnesium alloy*, Metal alloys * * Primer is recommended
TYPES OF HARDENER	<ol style="list-style-type: none"> PLATOP No.800 Hardener IP-60 (Standard Grade) PLATOP No.800 Hardener E-70 (Flexible Grade)

APPLICATION SPECIFICATIONS

Methods of application	Manual or auto air spray
Hardener	PLATOP 800 Hardener
Thinner	Thinner No.6000 series/ Thinner 7000 series
Mixing ratio	Base / Hardener IP-60 = 8/1 (Weight ratio) Base / Hardener E-70 = 5/1 (Weight ratio)
Viscosity	10 ~ 15 seconds (NK-2 Cup)
Pot life	4 hrs (at room temperature)
Spray gun nozzle	0.8 ~ 1.5 mmØ
Spray air pressure	0.3 ~ 0.5 MPa (3 ~ 5 kg/cm ²)
Drying condition	80°C x 30 minutes
Dry film thickness	20 ~ 30 µm

Remarks:

- Stains on application surface such as oil will affect the adhesion, please clean substrates adequately.
- Stir base paint thoroughly until uniform before using, and ensure paint is stirred continuously even during application.
- Base / Hardener mixing ratio must be weighed accurately.
- 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.
- Hardener shall be sealed tightly and kept in cool and dark place due to its reactivity with moisture.
- The film thickness is very important for the property. It needs to be kept as indicated.
- The above is only a recommended specs, coater has to do own adjustment and study the best condition to achieve good paint film appearance.



Film Properties

Paint : PLATOP NO.800 Matt Black (using Hardener IP-60)

Materials : PC/PBT Alloy

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

Test Item	Test Condition	Results	
Hardness	Pencil Hardness (Mitsubishi Uni.)	H	
Initial adhesion	Tape adhesion under 100 mesh cut by 1mm	100/100	
Impact resistance	Dupont R=12, 7mm, W=4.9N (0.5 kg f), H=30cm	No abnormality	
Alkaline color change resistance	0.1N NaOH Spot test, 20°C x 4hrs	No abnormality	
Acid color change resistance	0.1N H ₂ SO ₄ Spot test, 20°C x 24hrs	No abnormality	
Alcohol resistance	80% Ethanol solution, W=9.8N (1kg f) rubbing 10 times	No abnormality	
Volatile oil resistance	(n-hexane/n-heptane =1/1) , W=0.98N (1kg f) rubbing 10 times	No abnormality	
Accelerated weather test	SWOM 1200hrs	Color difference	ΔE=0.7
		Gloss retention	93%
Humidity Test	40°C, 98%RH x 240hrs	Appearance	No abnormality
	Cross hatch tape adhesion test mesh cut by 1mm	Adhesion	100/100
Hot water resistance	Dipping for 240hrs in hot water (40°C)	No abnormality	
Heat resistance	80°C x 24hrs	No abnormality	
Heat cycle test	[(-30°C x 3hrs follow by room temp x 1hr) + (80°C x 3hrs follow by room temp x 1hrs) + (50°C x 98%RH x 15hrs follow by room temp x 1hr)] x 5 cycles	No abnormality	

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