

# Product Data Sheet

Bumper-1

Maker name : Dai Nippon Toryo Co., Ltd.

Type of paint	Primer: 1 Component type	Base Coat: 1 Component type	Clear Coat: 2 Component type
Name	Planitto#543 Conductive Primer	Planitto#400	Planitto#840 SB Clear

## 1. Characteristics

- Primer :Excellent conductivity, good adhesion on PP
- Base Coat :Good workability
- Clear Coat :Low temperature baking (80°C-30min) ,Excellent weather ability
- Applicable parts are shown in Fig1.

## 2. Composition

Materials		Rate of Compositio	
Primer (Dark Gray)	Resin varnishes	Chlorinated poly propylene	12.6
	Pigment	C, Conductive Titanium, etc	13.6
	Additives	Surface adjustment agent	0.9
	Solvent	Aromatic type Ether, Ketone	72.9
Base coat (Silver)	Resin varnishes	Polyester CAB Blocked isocyanate	30.0
	Pigment	Aluminum paste	7.0
	Additives	Leveling agent UV agent	2.2
	Solvent	Aromatic type Alcohol Ester	60.8
Clear coat	Resin varnishes	Chlorinated poly propylene	55.1
	Pigment	—	—
	Additives	Surface adjustment agent	11.9
	Solvent	Aromatic type Alcohol type	32
Hardener	HDI	See Item 3	

## 3. Paint specification (Supply paint)

Item	Primer	Base Coat	Clear Coat
Hardner/Compornet Ratio	—	—	100:33
Viscosity	22±2 sec/NK#2/20 °C	20 sec/NK#2/20 °C	18~20 sec/NK#2/20 °C
Specific gravity	0.9~1.0	0.97	1.0
Nonvolatile%	20.0~29.4	46.0	36.3
Application equipment	Auto REA Hand air gun	Auto REA Hand air gun	Auto REA Hand air gun

## 5. Controlled substance

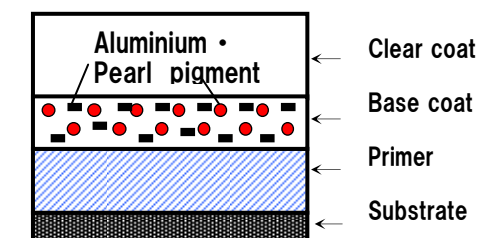
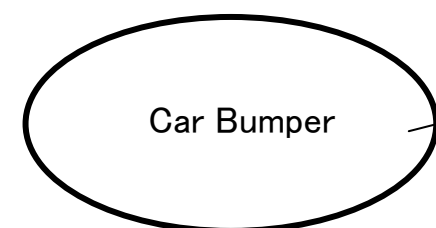
Fire service Act	Type 4 class1 (Flash point 18°C)	Type 4 class1 (Flash point 18.5°C)	Type 4 class1 (Flash point 18.5°C)	Type 4 class4 (Flash point 233°C)
Poisonous and Deleterious substances	N/A	N/A	N/A	LD <sub>50</sub> (rat) >2000mg/Kg
Hazardous substances	Toluen, Xylene, Butyl acetate	Xylene, Butyl acetate	Xylene, Butyl alcohol	0.005ppm TW
ELV regulation	N/A	N/A	N/A	N/A

N/A: Not available

## 4. Film performances [Substrate-Primer-Base Coat/Clear Coat System]

Items	Spec.	Result	Test method	
Gloss	Metallic 80 or better	92.1	60°-60° gloss	
Hardness	6B or harder	5B	Pencil hardness	
Adhesion	100/100	Pass	2mm cross cut	
Impact resistance	60Cm or more	60 Cm	6.3Rx3Kg	
Water resistance	•No excessive defect •Adhesion 100/100	Pass 100/100	40°C × 24hours	
Humidity resistance	•No excessive defect •Adhesion 100/100	Pass 100/100	50°C × 95%RHx240hours	
Yellowing resistance	No excessive defect of coating	Pass	80°C × 240 hour	
Gasoline resistance	No excessive defect of coating	Pass	Gasoline :RT Dipping x 0.5 hours	
Tack-free resistance	No excessive defect of coating	Pass	500gX80CX2 hours	
Chemical resistance	Acid Spot	No excessive defect of coating	Pass	1/10N H <sub>2</sub> SO <sub>4</sub> RTX24 hours
	Alkali Spot	No excessive defect of coating	Pass	1/10N NaOH 55°CX 4 hours
Accelerating weather resistance	No excessive defect of coating ΔE < 3.0	Pass ΔE:0.67/G.U:99.1 (Silver)	S.W.O.M 2000hours	
Weather resistance	Gloss retention >90%	Pass ΔE:0.89/G.R:97.8 (Silver)	24 month OKINAWA Exposure	

Fig1. Applicable parts



Metallic, pearl coating