

Product Data Sheet

Body-2

Maker name : Dai Nippon Toryo Co., Ltd.

Type of paint	Primer:	Base Coat:	Clear Coat:
Name	DNT NAKA HG-H	T858LINE	T639LINE C-890A1-2

1. Characteristics

- Primer :Excellent appearance, Anti-chipping (Thin film)
- Base Coat :High Solid-base coat (Ap-Nv:30-35%)
- Clear Coat :Acid resistance clear (Ap-nv:40-42%)
- Applicable parts are shown in Fig1.

2. Composition

		Materials	Rate of Composition
Primer (Light gray)	Resin varnish	Polyester Melamine resin	35.2
	Pigment	C, TiO ₂ , etc	28.8
	Additives	Leveling agent R.C.agent, etc	0.8
	Solvent	Aromatic type Alcohol type Ester type	35.2
Base coat (Silver)	Resin varnish	Acrylic, polyester, microgel Melamine resin	39.0
	Pigment	Aluminum paste , etc	8.1
	Additives	Leveling agent R.C.agent, etc	0.4
Clear coat	Solvent	Aromatic type Alcohol type	52.5
	Resin varnish	Acrylic Melamine Cyclocarbonate resin	49.0
	Pigment	—	—
	Additives	Leveling agent R.C.agent, UV, HALS	3.3
Solvent	Aromatic type Alcohol type	47.7	

3. Paint specification (Supply paint)

Item	Primer	Base Coat	Clear Coat
Viscosity	50±3sec /FC#4/20°C	40±3sec /FC#4/20°C	48±3sec /FC#4/20°C
Specific gravity	1.28	0.98	1.0
Nonvolatile%	64±2	47±2	49±2
Application equipment	Bell	Meta bell Auto REA	Bell

5. Controlled substance

Fire service Act	Type 4 class2 (Flash point 22.5°C)	Type 4 class1 (Flash point 25.5°C)	Type 4 class1 (Flash point 28.0°C)
Poisonous and Deleterious substances	N/A	N/A	N/A
Hazardous substances	Xylene, Butyl alcohol Butyl acetate	Xylene, Butyl alcohol	Xylene, Butyl alcohol
ELV regulation	N/A	N/A	N/A

N/A: Not available

4. Film performances [Steel-ED-Primer-Base Coat/Clear Coat System]

Items	Spec.	Result	Test method	
Gloss	Metallic 80 or better	100	60°-60° gloss	
Hardness	HB or harder	F	Pencil hardness	
Adhesion	100/100	Pass	2mm cross cut	
Impact resistance	20Cm or more	Pass 20 Cm	1/2inchX500g	
Water resistance	•No excessive defect •Adhesion Rank2 or better	Pass Rank 1	40°C x 240 hours	
Humidity resistance	•No excessive defect •Adhesion Rank2 or better	Pass Rank 1	50°C x 98%RHx240hours	
Chipping resistance	Rank4 or better	Pass Rank4.5	-20°Cx0.29MPaX 50g(2.5~5.0size Crashed stone)	
Gasoline resistance	No excessive defect of coating	Pass	23°C Dipping x 1 hours	
Tack-free resistance	No excessive defect of coating	Pass	500gX80°CX2 hours	
Chemical resistance	Acid Spot	No excessive defect Rank2 or better	Pass Rank1	20wt% H ₂ SO ₄ 85°C X 1 hours
	Alkali Spot	No excessive defect Rank2 or better	Pass Rank1	0.1N NaOH 55°C X 4 hour
Corrosion resistance	Peeling width shall be within 3mm at one side	Pass 2mm	Salt Splay test 400 hours	
Accelerating weather resistance	No excessive defect of coating	Pass ΔE:0.67/G.R:99.1 (Silver)	S.W.O.M 2000hours	
Weather resistance	ΔE< 3.0 Gloss retention >80%	Pass ΔE:0.89/G.R:92.8 (Silver)	24 month OKINAWA Exposure	

Fig1. Applicable parts

