

Product Data Sheet

Body-1

Maker name : Dai Nippon Toryo Co., Ltd.

Type of paint	Primer:	Base Coat:	Clear Coat:
Name	DNT NAKA HG-H2	Aclose #9200	Aclose #9200 Clear

1. Characteristics

- Primer :Excellent appearance, Anti-chipping
- Base Coat :Conventional base coat
- Clear Coat :Conventional clear (Ap-nv:42-44%)
- Applicable parts are shown in Fig1.

2. Composition

Materials		Rate of Composition
Primer (Light gray)	Resin varnish	Polyester melamine epoxy resin 35.0
	Pigment	Carbon, TiO ₂ , etc 25.6
	Additives	Leveling agent R.C.agent, etc 0.8
	Solvent	Aromatic type Alcohol type Ester type, etc 38.6
Base coat (Silver)	Resin varnish	Acrylic melamine resin 34.5
	Pigment	Aluminum paste, etc 6.0
	Additives	Leveling agent R.C.agent, etc 0.9
	Solvent	Aromatic type Alcohol type Ester type etc 58.6
Clear coat	Resin varnish	Acrylic melamine resin 51.0
	Pigment	— —
	Additives	Leveling agent R.C.agent, UV, HALS 1.8
	Solvent	Aromatic type Alcohol type 47.2

3. Paint specification (Supply paint)

Item	Primer	Base Coat	Clear Coat
Viscosity	50±3sec /FC#4/20°C	55±3sec /FC#4/20°C	57±3sec /FC#4/20°C
Specific gravity	1.27±0.02	0.99±0.02	0.98±0.02
Nonvolatile%	63±1	41±1	51±1
Application equipment	Bell	Meta bell Auto REA	Bell

5. Controlled substance

	Type 4 class2 (Flash point 22.5°C)	Type 4 class2 (Flash point 22.5°C)	Type 4 class2 (Flash point 25.5°C)
Fire service Act			
Poisonous and Deleterious substances	N/A	N/A	N/A
Hazardous substances	Xylene, Butyl alcohol Butyl acetate	Xylene, Butyl alcohol Butyl acetate	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	98.0	20°-20° gloss
Hardness	F 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 100/100	Pass 100/100	40°C × 24hours
Humidity resistance	•No excessive defect •Adhesion 100/100	Pass 100/100	50°C × 95%RH X 240hours
Chipping resistance	Rank2 or better	Pass Rank 1	0.39MPas/angle=90° -20°C 50g(number7 rubble:3.0~5.0mm size)
Fuel Oil resistance	No excessive defect of coating	Pass	Benzen:Toluen=8:2 RT x 7 hours
Tack-free resistance	No excessive defect of coating	Pass	500gX80CX2 hours
Chemical resistance	Acid Spot	No excessive defect of coating Pass	1/20mole H ₂ SO ₄ RT X 24 hours
	Alkali Spot	No excessive defect of coating Pass	1/10mole NaOH 55°C X 4 hours
Corrosion resistance	Peeling width shall be within 3mm at one side	Pass 2mm	Salt Splay test 400 hours
Accelerating weather resistance	ΔE < 3.0 Gloss Retention > 80%	Pass ΔE:0.67/G.R:99.1 (Silver)	S.W.O.M 2000hours
Weather resistance	No excessive defect of coating	Pass ΔE:0.89/G.R:97.8 (Silver)	24 month OKINAWA Exposure

Fig1. Applicable parts

