DESCRIPTION

Two-component, high-build semi-gloss aliphatic acrylic polyurethane finish

PRINCIPAL CHARACTERISTICS

- Easy application by roller and airless spray
- Unlimited recoatable
- Excellent resistance to atmospheric exposure conditions
- Good color and gloss retention (aluminum version becomes grey)
- Cures at temperatures down to -5°C (23°F)
- Tough and abrasion resistant
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Can be recoated even after long atmospheric exposure

COLOR AND GLOSS LEVEL

- Full color range, including aluminum light and dark
- Semi-gloss
- · Low Sheen or Matt/Flat available on request for limited colors

BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Тwo	
Mass density	White: 1.4 kg/l (11.7 lb/US gal) Aluminum: 1.1 kg/l (9.2 lb/US gal)	
Volume solids	White: 58 ± 2% Aluminum: 51 ± 2%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 287 g/kg (white) max. 383.0 g/l (approx. 3.2 lb/gal) (white) max. 405.0 g/l (approx. 3.4 lb/gal) (aluminum)	
Recommended dry film thickness	50 - 75 µm (2.0 - 3.0 mils) depending on system	
Theoretical spreading rate	White: 11.6 m²/l for 50 μm (465 ft²/US gal for 2.0 mils) Aluminum: 9.6 m²/l for 50 μm (385 ft²/US gal for 2.0 mils)	
Dry to touch	1 hour	
Overcoating Interval	Minimum: 6 hours Maximum: Unlimited	
Full cure after	4 days	
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

Notes:



- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Previous coat (epoxy or polyurethane) must be dry and free from any contamination
- Surface of previous coat should be sufficiently roughened if necessary

Substrate temperature and application conditions

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should not exceed 85%
- Premature exposure to early condensation and rain may cause color and gloss change

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 7.33:1

- The temperature of the mixed base and hardener should be above 10°C (50°F), otherwise extra thinner may be required to obtain application viscosity
- Adding too much thinner results in reduced sag resistance
- Thinner should be added after mixing the components
- Aluminum version has lower gloss than the standard version and the color could be different by application method

Pot life

5 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA - Pot life



Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

5 - 10%, depending on required thickness and application conditions

Nozzle orifice

1.0 - 1.5 mm (approx. 0.040 - 0.060 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.46 mm (0.018 in)

Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Brush/roller

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%

Cleaning solvent

• THINNER 90-53



ADDITIONAL DATA

Spreading rate and film thickness – White		
DFT	Theoretical spreading rate	
50 μm (2.0 mils)	11.6 m²/ (465 ft²/US gal)	
75 µm (3.0 mils)	7.7 m²/ (310 ft²/US gal)	

Spreading rate and film thickness – Aluminum		
DFT	Theoretical spreading rate	
50 µm (2.0 mils)	9.6 m²/ (385 ft²/US gal)	
75 µm (3.0 mils)	6.4 m²/ (257 ft²/US gal)	

Overcoating interval for DFT up to 75 μm (3.0 mils)							
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	24 hours	16 hours	8 hours	6 hours	5 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note:

- Surface should be dry and free from any contamination

Curing time for DFT up to 75 µm (3.0 mils)			
Substrate temperature	Dry to handle	Full cure	
-5°C (23°F)	24 hours	15 days	
0°C (32°F)	16 hours	11 days	
10°C (50°F)	8 hours	6 days	
20°C (68°F)	6 hours	4 days	
30°C (86°F)	5 hours	3 days	
40°C (104°F)	3 hours	48 hours	

Notes:

- Adequate ventilation must be maintained during application and curing
- Premature exposure to early condensation and rain may cause color and gloss change



Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	7 hours	
20°C (68°F)	5 hours	
30°C (86°F)	3 hours	
40°C (104°F)	2 hours	

SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes
- Contains a polyisocyanate curing agent

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

· Information sheet | Explanation of product data sheets

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