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)
- Non-chalking, non-yellowing
- 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

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
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 1999/13/EC, SED: max. 287 g/kg (white) Directive 1999/13/EC, SED: max. 377 g/kg (aluminum) 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 m ² /l for 50 μ m (465 ft ² /US gal for 2.0 mils) Aluminum: 9.6 m ² /l for 50 μ m (385 ft ² /US gal for 2.0 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 6 hours Maximum: Unlimited
Full cure after	4 days



Data for mixed product	
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 my cause color and gloss change

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 88:12

- 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

Induction time

None

Pot life 5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life



<u>Air spray</u>

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.)

<u>Airless spray</u>

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/l (465 ft²/US gal)	
75 µm (3.0 mils)	7.7 m²/l (310 ft²/US gal)	



Spreading rate and film thickness – Aluminum		
DFT	Theoretical spreading rate	
50 µm (2.0 mils)	9.6 m²/l (385 ft²/US gal)	
75 µm (3.0 mils)	6.4 m²/l (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 (please refer to INFORMATION SHEETS 1433 and 1434)
- 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

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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
- Avoid at all times inhalation of aerosol spray mist



WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and 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

 CONVERSION TABLES EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430
 SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD 	INFORMATION SHEET	1431
 SAFE WORKING IN CONFINED SPACES DIRECTIVES FOR VENTILATION PRACTICE 	INFORMATION SHEET INFORMATION SHEET	1433 1434
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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