DESCRIPTION

Two-component, high solids, high-build aliphatic acrylic polyurethane finish

PRINCIPAL CHARACTERISTICS

- Excellent resistance to atmospheric exposure conditions
- Good color and gloss retention
- Cures at temperatures down to -5°C (23°F)
- Resistant to splash of mineral and vegetable oils, paraffins, aliphatic petroleum products and mild chemicals
- Can be recoated even after long atmospheric exposure
- Good application properties by airless, brush and roller
- High film build-up to 150 µm (6.0 mils) for one coat
- Can be applied direct to metal
- Drying and curing times can be reduced significantly using PPG 866M ACCELERATOR

COLOR AND GLOSS LEVEL

- Standard and custom colors
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.5 kg/l (12.5 lb/US gal)
Volume solids	70 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 220.0 g/kg EPA Method 24: 238.0 g/ltr (2.0 lb/USgal)
Recommended dry film thickness	50 - 150 µm (2.0 - 6.0 mils) depending on system
Theoretical spreading rate	14.0 m²/l for 50 μm (561 ft²/US gal for 2.0 mils) 9.3 m²/l for 75 μm (374 ft²/US gal for 3.0 mils)
Overcoating Interval	Minimum: 8 hours Maximum: Unlimited
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

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils) or power tool cleaned to ISO-St3
- Compatible previous coat must be dry and free from any contamination

Substrate temperature and application conditions

- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
- 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 6.69:1

- Do not thin more than is required by appropriate application property
- Adding too much thinner results in reduced sag resistance
- Thinner should be added after mixing the components

<u>Air spray</u>

Recommended thinner

THINNER 21-06

Volume of thinner

10 - 15%, 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 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.43 - 0.48 mm (0.017 - 0.019 in)

Nozzle pressure

20.0 MPa (approx. 200 bar; 2901 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		
DFT	Theoretical spreading rate	
50 µm (2.0 mils)	14.0 m²/l (561 ft²/US gal)	
75 µm (3.0 mils)	9.3 m²/l (374 ft²/US gal)	
100 µm (4.0 mils)	7.0 m²/l (281 ft²/US gal)	
150 μm (6.0 mils)	4.7 m²/l (187 ft²/US gal)	



Overcoating interval for DFT up to 150 μm (6.0 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 Maximum	36 hours Unlimited	24 hours Unlimited	16 hours Unlimited	8 hours Unlimited	4 hours Unlimited	2 hours Unlimited

Overcoating interval with PPG 866M ACCELERATOR for DFT up to 150 μ m (6.0 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	28 hours	20 hours	12 hours	6 hours	3 hours	1.5 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note:

- Surface must be dry and free from any contamination

Curing time for DFT up to 150 μm (6.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
-5°C (23°F)	24 hours	40 hours	22 days	
0°C (32°F)	15 hours	30 hours	18 days	
10°C (50°F)	5 hours	20 hours	10 days	
20°C (68°F)	3 hours	12 hours	7 days	
30°C (86°F)	2 hours	6 hours	4 days	
40°C (104°F)	1 hour	3 hours	3 days	



Curing time with PPG 866M ACCELERATOR for DFT up to 150 µm (6.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
-5°C (23°F)	21 hours	32 hours	18 days	
0°C (32°F)	12 hours	24 hours	15 days	
10°C (50°F)	4 hours	15 hours	8 days	
20°C (68°F)	2 hours	8 hours	6 days	
30°C (86°F)	1.5 hours	4 hours	3 days	
40°C (104°F)	1 hour	2 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)	4 hours		
20°C (68°F)	2.5 hours		
30°C (86°F)	1.5 hours		
40°C (104°F)	1 hour		

Note:

- Mixing this product with PPG 866M ACCELERATOR will not affect the pot life

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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