DESCRIPTION

Two-component, high solids polymeric urethane

PRINCIPAL CHARACTERISTICS

- Excellent resistance to atmospheric exposure conditions
- Outstanding color and gloss retention
- Cures 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

- Standard and custom colors
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product				
Number of components	Тwo			
Mass density	1.3 kg/l (10.8 lb/US gal)			
Volume solids	68 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 226.0 g/kg UK PG 6/23(92) Appendix 3: max. 289.0 g/l (approx. 2.4 lb/US gal) China GB 38469-2019 (tested) 293.0 g/l (approx. 2.4 lb/gal)			
Recommended dry film thickness	75 μm (3.0 mils)			
Theoretical spreading rate	9.1 m²/l for 75 μm (364 ft²/US gal for 3.0 mils)			
Dry to touch	2 hours			
Overcoating Interval	Minimum: 12 hours Maximum: Unlimited			
Full cure after	7 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

- 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%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 83:17

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Thinner should be added after mixing the components
- Adding too much thinner results in reduced sag resistance

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

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 3 - 5%, depending on required thickness and application conditions

Nozzle orifice Approx. 0.38 – 0.43 mm (0.015 – 0.017 in)

Nozzle pressure 18.0 MPa (approx. 180 bar; 2611 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			
75 µm (3.0 mils)	9.1 m²/l (364 ft²/US gal)			
100 µm (4.0 mils)	6.8 m²/l (273 ft²/US gal)			
125 µm (5.0 mils)	5.4 m²/l (218 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	3 days	48 hours	24 hours	12 hours	8 hours	5 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Maximum interval is only unlimited when the surface is free from any contamination



Curing time for DFT up to 75 μm (3.0 mils)					
Substrate temperature	Dry to touch	Full cure			
-5°C (23°F)	8 hours	22 days			
0°C (32°F)	5 hours	18 days			
10°C (50°F)	3 hours	10 days			
20°C (68°F)	2 hours	7 days			
30°C (86°F)	1 hour	4 days			
40°C (104°F)	30 minutes	3 days			

Notes:

- Adequate ventilation must be maintained during application and curing

- Should condensation on the surface occur during, or soon after application, this could result in gloss reduction

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)	4 hours			
40°C (104°F)	3 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 toxic 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

• EXPLANATION TO PRODUCT DATA SHEETS

INFORMATION SHEET 1411



WARRANTY

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