DESCRIPTION

Two-component, high solids acrylic aliphatic polyurethane finish

PRINCIPAL CHARACTERISTICS

- · Finish coat for (anti-corrosive) coating systems on steel and concrete structures in atmospheric exposure conditions
- Good UV resistance
- Excellent color and gloss retention
- · Good impact and abrasion resistance
- · Long potlife at elevated temperatures
- Resistant to splash and spillage of mild chemicals and solvents
- · High elasticity

COLOR AND GLOSS LEVEL

- · White and various other colors on request
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.3 kg/l (10.7 lb/US gal)	
Volume solids	64 ± 2%	
Recommended dry film thickness	50 - 75 μm (2.0 - 3.0 mils) depending on system 12.8 m²/l for 50 μm (513 ft²/US gal for 2.0 mils)	
Theoretical spreading rate		
Dry to touch	1 hour	
Overcoating Interval	Minimum: 12 hours Maximum: Unlimited	
Full cure after	8 days	
Shelf life	Base: at least 24 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
- Previous coat: surface should be sufficiently roughened if necessary

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Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 92:8

- 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

Induction time

None

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.)

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Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.33 - 0.38 mm (0.013 - 0.015 in)

Nozzle pressure

20.0 MPa (approx. 200 bar; 2901 p.s.i.)

Brush/roller

Recommended thinner

THINNER 21-22 (preferred) or THINNER 21-06

Volume of thinner

0 - 5%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickr	oreading rate and film thickness		
DFT	Theoretical spreading rate		
50 μm (2.0 mils)	12.8 m²/l (513 ft²/US gal)		
60 μm (2.4 mils)	10.7 m²/l (428 ft²/US gal)		
75 μm (3.0 mils)	8.5 m²/l (342 ft²/US gal)		

Overcoating interval for DFT up to 75 μm (3.0 mils)					
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	24 hours	12 hours	10 hours	8 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note: This product has an unlimited overcoating interval provided the surface is free from chalking and other contaminations

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Curing time for DFT up to 75 µm (3.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
20°C (68°F)	1 hour	8 hours	8 days	
30°C (86°F)	45 minutes	6 hours	5 days	
40°C (104°F)	30 minutes	4 hours	3 days	

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 viscosi	ot life (at application viscosity)		
Mixed product temperature	Pot life		
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 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
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
•	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431
	TOXIC HAZARD		
•	SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
•	DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
•	CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490

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