DESCRIPTION

Two-component, aliphatic acrylic polyurethane finish

PRINCIPAL CHARACTERISTICS

- Unlimited recoatable
- · 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
- ACQPA 35491-certified
- CE-marked product in accordance with EN 1504-2 (system 2+)

COLOR AND GLOSS LEVEL

- White and various other colors (see also SIGMACARE shade card)
- Gloss

Note:

- Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast

BASIC DATA AT 20°C (68°F)

Data for mixed product				
Number of components	Two			
Mass density	1.3 kg/l (10.8 lb/US gal)			
Volume solids	55 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 334.0 g/kg EUR Directive: 2004/42/IIA(i)(500) 459 g/l max. 430.0 g/l (approx. 3.6 lb/US gal)			
Recommended dry film thickness	50 - 75 μm (2.0 - 3.0 mils) depending on system			
Theoretical spreading rate	11.0 m²/l for 50 μm (441 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			

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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

Substrate temperature and application conditions

- Substrate temperature during application at -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 (37°F) above dew point
- Relative humidity during application and curing should not exceed 85%
- Should condensation on the surface occur during, or soon after application, this could result in color and gloss change

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 88:12 (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
- Thinner should be added after mixing the components
- Adding too much thinner results in reduced sag resistance

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

3 - 5%, 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

3 - 5%, 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)	11.0 m²/l (441 ft²/US gal)		
60 μm (2.4 mils)	9.2 m²/l (368 ft²/US gal)		
75 μm (3.0 mils)	7.3 m²/l (294 ft²/US gal)		

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Overcoating interval for DFT up to 50 μm (2.0 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 60 µm (2.4 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

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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

- · Guide | PPG SIGMACARE PLUS | Online guide to maintenance at sea
- · Information sheet | Explanation of product data sheets

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