(SIGMADUR™ 568)

DESCRIPTION

Two-component, high solids high-build 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

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 1999/13/EC, SED: max. 220.0 g/kg max. 330.0 g/l (approx. 2.8 lb/US gal) UK PG 6/23(92) Appendix 3: max. 259.0 g/l (approx. 2.2 lb/US gal)			
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils) depending on system			
Theoretical spreading rate	14.0 m²/l for 50 μ m (561 ft²/US gal for 2.0 mils) 9.3 m²/l for 75 μ m (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



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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 1.8 mils), or powertool 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 my cause color and gloss change

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 87:13

- 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

Induction time

None

Air spray

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.)



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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. 0.43 - 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%

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 100 μm (4.0 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	36 hours	24 hours	16 hours	8 hours	4 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination



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Curing time for DFT up to 100 μm (4.0 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	

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

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	

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



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