(SIGMADUR™ 568)

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 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 m ² /l (187 ft ² /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	36 hours	24 hours	16 hours	8 hours	4 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited



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Overcoating interval with PPG 866M ACCELERATOR 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	28 hours	20 hours	12 hours	6 hours	3 hours	1.5 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should 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 (please refer to INFORMATION SHEETS 1433 and 1434)
- 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

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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

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shell life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

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