DESCRIPTION

Low friction linear polishing antifouling based on hydrolysable polymer composition for deep sea going vessels

PRINCIPAL CHARACTERISTICS

- TBT-free self-polishing antifouling with good weathering properties for atmospheric resistance during vessel construction and in-service
- Designed as the antifouling system suitable for high- and medium-activity vessels engaged on deep-sea trades (tankers, bulkers, general cargo, container ships, etc.)
- · Controlled polishing rate to give effective protection in accordance with the specified dry film thickness
- · Controls settlement of shell and weed fouling for prolonged periods, depending on sailing pattern and routes
- Complies with IMO Antifouling Systems Convention

COLOR AND GLOSS LEVEL

- · Redbrown, brown
- Flat

BASIC DATA AT 20°C (68°F)

Data for product				
Number of components	One			
Mass density	1.8 kg/l (15.0 lb/US gal)			
Volume solids	56 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 239.0 g/kg UK PG 6/23(92) Appendix 3: max. 425.0 g/l (approx. 3.5 lb/US gal) China GB 38469-2019 (tested) 416.0 g/l (approx. 3.5 lb/gal)			
Recommended dry film thickness	75 - 150 μm (3.0 - 6.0 mils) depending on system			
Theoretical spreading rate	$3.7~\text{m}^2/\text{I}$ for 150 μm (150 ft²/US gal for 6.0 mils)			
Dry to touch	1 hour			
Overcoating Interval	Minimum: 6 hours			
Refloating time	Minimum: 8 hours			
Shelf life	At least 18 months when stored cool and dry			

Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Previous coat must be sound, dry and free from any contamination
- Suitable high performance anticorrosive (epoxy)
- For the epoxy anticorrosive system, SIGMACOVER 525 or SIGMACOVER 555 should be used as a tiecoat

Substrate temperature and application conditions

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

INSTRUCTIONS FOR USE

· The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 3%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.53 - 0.69 mm (0.021 - 0.027 in)

Nozzle pressure

12.0 - 15.0 MPa (approx. 120 - 150 bar; 1741 - 2176 p.s.i.)

Brush/roller

· Only for touch-up and repair

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 3%

Cleaning solvent

THINNER 21-06

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ADDITIONAL DATA

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
75 μm (3.0 mils)	7.5 m²/l (299 ft²/US gal)		
100 μm (4.0 mils)	5.6 m²/l (225 ft²/US gal)		
150 µm (6.0 mils)	3.7 m²/l (150 ft²/US gal)		

Overcoating interval for DFT up to 150 µm (6.0 mils)					
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	12 hours	10 hours	6 hours	4 hours
	Refloating - Minimum	24 hours	12 hours	8 hours	6 hours

Notes:

- The above data are a fair indication for normal application conditions
- Longer drying times may be necessary at higher DFT and under unfavorable atmospheric conditions
- For systems with more than two layers of antifouling minimum drying time before overcoating and minimum time before refloating should be increased
- In exceptional cases SIGMA ALPHAGEN 230 may be applied at lower substrate temperatures (down to -15°C (5°F)) provided that the surface is free from ice and other contamination. In such cases special care must be taken to avoid thick film application as this may lead to checking/crazing or solvent entrapment. It should be clear that application at lower temperatures will require additional thinning to obtain application viscosity, however this will affect the sag resistance of the applied coating and can induce solvent retention.
 Optimal curing and designed product properties will only be achieved when minimum required substrate temperature is reached.

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

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		

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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 USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE 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 shelf 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.

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Depending on specific country of application the following versions are available:

Article code	Color	Reference
332341	brown	2000002200
332342	redbrown	2008002200

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