

PPG NEXEON™ 610

DESCRIPTION

High-performance tin-free and copper-free self-polishing antifouling

PRINCIPAL CHARACTERISTICS

- TBT-free and copper free self polishing antifouling for new building and maintenance
- Controlled polishing rate to give effective protection in accordance with the specified film thickness and vessel service conditions
- Controls common types of shell and weed fouling for long service 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	1.6 kg/l (13.4 lb/US gal)
Volume solids	67 ± 3%
VOC (Supplied)	EPA Method 24: 2.9 lb/US gal (346.0 g/l)
Recommended dry film thickness	3.0 - 6.0 mils (75 - 150 µm) depending on system
Theoretical spreading rate	215 ft ² /US gal for 5.0 mils (5.2 m ² /l for 125 µm)
Dry to touch	1 hour
Overcoating Interval	Minimum: 6 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Suitable high performance anticorrosive tiecoats
- Compatible previous coat must be dry and free from any contamination

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Substrate temperature and application conditions

- Substrate temperature during application should be at least 3°C (5°F) above dew point
 - Substrate temperature during application and curing should be above -5°C (23°F)
 - Relative humidity during application and curing should not exceed 85%
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INSTRUCTIONS FOR USE

- The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity
 - The material temperature should be at least 16°C (60°F) or additional thinner may be required
 - Adding excessive thinner results in reduced sag resistance
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Airless spray

Recommended thinner

THINNER 21-06 (PPG HI-TEMP THINNER 11/AMERCOAT 65)

Volume of thinner

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

Nozzle orifice

0.021 - 0.025 in (approx. 0.53 - 0.64 mm)

Nozzle pressure

1750 - 2500 p.s.i. (approx. 121 - 173 bar; 12.1 - 17.2 MPa)

Brush/roller

- Only for touch-up and spot repair

Recommended thinner

THINNER 21-06 (PPG HI-TEMP THINNER 11/AMERCOAT 65)

Volume of thinner

0 - 3%

Cleaning solvent

- THINNER 21-06 (AMERCOAT 65)
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ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
3.0 mils (75 µm)	358 ft ² /US gal (8.8 m ² /l)
4.0 mils (100 µm)	269 ft ² /US gal (6.6 m ² /l)
6.0 mils (150 µm)	179 ft ² /US gal (4.4 m ² /l)

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	24 hours	16 hours	8 hours	6 hours
	Refloating - Minimum	24 hours	16 hours	12 hours	8 hours

Notes:

- 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
- The above data are a fair indication for normal application conditions

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

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

- Information sheet | Explanation of product data sheets

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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