PPG NEXEON™ 810

DESCRIPTION

Ultra low friction, copper-free self-polishing antifouling based on pure hydrolyzable binder composition

PRINCIPAL CHARACTERISTICS

- Designed for ocean going vessel types and operations
- Ultra low friction properties due to copper-free composition and self-smoothing properties
- Extended idle day protection
- Ultra linear polishing rate and minimal leach layer build up that provides optimal antifouling performance
- Excellent aesthetics during service life of the vessel
- 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	1.46 kg/l (12.18 lb/US gal)
Volume solids	57 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 425.0 g/kg EPA Method 24: 422.0 g/ltr (3.5 lb/USgal) China GB 38469-2019 (tested) 414.0 g/l (approx. 3.5 lb/gal)
Recommended dry film thickness	75 - 160 µm (3.0 - 6.3 mils) depending on system
Theoretical spreading rate	3.6 m^2/l for 160 µm (145 ft^2/US gal for 6.3 mils)
Dry to touch	1 hour
Dry to handle	12 hours
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

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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
- For the epoxy anticorrosive system SIGMACOVER 555 is advised

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%

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 spot 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)	7.6 m^2/l (305 ft^2/US gal)
100 µm (4.0 mils)	5.7 m^2/l (229 ft^2/US gal)
160 µm (6.3 mils)	3.6 m^2/l (145 ft^2/US gal)

Overcoating interval for DFT up to 160 µm (6.3 mils)							
Overcoating with...	**Interval**	**-5°C (23°F)**	**0°C (32°F)**	**5°C (41°F)**	**10°C (50°F)**	**20°C (68°F)**	**30°C (86°F)**
itself	Minimum	24 hours	18 hours	12 hours	10 hours	6 hours	4 hours
	Refloating - Minimum	36 hours	30 hours	24 hours	18 hours	12 hours	9 hours

Notes:

- Longer drying times may be necessary at higher DFT and under unfavorable atmospheric conditions
- Above table is a fair indication for normal application conditions. Please contact your PPG representative for data at much lower and higher DFT conditions.

DISCLAIMER

- For industrial or professional use only

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

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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.

LIMITATIONS OF LIABILITY

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AVAILABILITY OF PACKAGING

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

Article code	Color	Reference
463229	Brown	200000CN2200
463230	Redbrown	200800CN2200
464074	Redbrown	200800KR2150

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