

# 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	
<b>Number of components</b>	One
<b>Mass density</b>	1.46 kg/l (12.18 lb/US gal)
<b>Volume solids</b>	57 ± 2%
<b>VOC (Supplied)</b>	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)
<b>Recommended dry film thickness</b>	75 - 150 µm (3.0 - 6.0 mils) depending on system
<b>Theoretical spreading rate</b>	3.8 m <sup>2</sup> /l for 150 µm (152 ft <sup>2</sup> /US gal for 6.0 mils)
<b>Dry to touch</b>	1 hour
<b>Dry to handle</b>	12 hours
<b>Overcoating Interval</b>	Minimum: 6 hours
<b>Shelf life</b>	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
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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
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### 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.)

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### Brush/roller

- Only for touch-up and spot repair

#### Recommended thinner

THINNER 21-06

#### Volume of thinner

0 - 3%

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### 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 <sup>2</sup> /l (305 ft <sup>2</sup> /US gal)
100 µm (4.0 mils)	5.7 m <sup>2</sup> /l (229 ft <sup>2</sup> /US gal)
150 µm (6.0 mils)	3.8 m <sup>2</sup> /l (152 ft <sup>2</sup> /US gal)

Overcoating interval for DFT up to 150 µm (6.0 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.

## 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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## 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

