PPG NOVAGUARD™ 260

DESCRIPTION

Two-component, high-build, amine adduct-cured novolac phenolic epoxy primer/coating

PRINCIPAL CHARACTERISTICS

- Tank coating with excellent resistance to alcohols, fats, solvents and various other chemicals
- Can be used as holding primer for all solvent-free epoxy and novolac tank coatings
- Can be used for hot water and hot oil storage up to 90°C (195°F)
- Good application properties, resulting in a smooth easy cleanable surface
- Can be applied and cures at temperatures down to 5°C (41°F)
- Good abrasion resistance

COLOR AND GLOSS LEVEL

- Pink (gray on request)
- Low sheen

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.7 kg/l (14.2 lb/US gal)
Volume solids	68 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 194.0 g/kg max. 328.0 g/l (approx. 2.7 lb/US gal)
Recommended dry film thickness	50 - 150 µm (2.0 - 6.0 mils)
Theoretical spreading rate	13.7 m^2/l for 50 µm (545 ft^2/US gal for 2.0 mils) 4.5 m^2/l for 150 µm (182 ft^2/US gal for 6.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 8 hours Maximum: 1 month
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 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

PPG NOVAGUARD™ 260

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to a minimum of ISO-Sa2½
- Blasting profile 50 – 100 µm (2.0 – 4.0 mils)
- The substrate must be perfectly dry before and during application of NOVAGUARD 260

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application should be at least 3°C (5°F) above dew point

SYSTEM SPECIFICATION

For use as a holding primer

- NOVAGUARD 260: 50 to 75 µm (2.0 to 3.0 mils)

For use as a tank coating

- NOVAGUARD 260: 2 x 125 to 150 µm (5.0 to 6.0 mils)

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 6.69:1

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Adding too much thinner results in reduced sag resistance and slower cure
- Thinner should be added after mixing the components

Table of Induction time

Mixed product induction time	
Mixed product temperature	**Induction time**
5°C (41°F)	20 minutes
10°C (50°F)	15 minutes
15°C (59°F)	10 minutes

PPG NOVAGUARD™ 260

Pot life

2 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA – Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 10%, depending on required thickness and application conditions

Nozzle orifice

2.0 mm (approx. 0.079 in)

Nozzle pressure

0.3 MPa (approx. 3 Bar; 44 p.s.i.)

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.48 – 0.53 mm (0.019 – 0.021 in)

Nozzle pressure

15.0 MPa (approx. 150 bar; 2176 p.s.i.)

PPG NOVAGUARD™ 260

Brush/roller

- Only for touch-up and spot repair

Recommended thinner

THINNER 91-92

Volume of thinner

0 – 5%

Cleaning solvent

- THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness	
DFT	**Theoretical spreading rate**
50 µm (2.0 mils)	13.6 m^2/l (545 ft^2/US gal)
75 µm (3.0 mils)	9.1 m^2/l (364 ft^2/US gal)
100 µm (4.0 mils)	6.8 m^2/l (273 ft^2/US gal)
150 µm (6.0 mils)	4.5 m^2/l (182 ft^2/US gal)

Note:

- Maximum DFT when brushing: 60 µm (2.4 mils)

Overcoating interval for DFT up to 100 µm (4.0 mils)							
Overcoating with...	**Interval**	**5°C (41°F)**	**10°C (50°F)**	**15°C (59°F)**	**20°C (68°F)**	**30°C (86°F)**	**40°C (104°F)**
itself, solvent-free epoxy and novolac tank coatings	Minimum	24 hours	20 hours	14 hours	8 hours	5 hours	3 hours
	Maximum	2 months	2 months	2 months	1 month	1 month	1 month

Note:

- Surface should be dry and free from any contamination

PPG NOVAGUARD™ 260

Overcoating interval for DFT up to 150 µm (6.0 mils)							
Overcoating with...	**Interval**	**5°C (41°F)**	**10°C (50°F)**	**15°C (59°F)**	**20°C (68°F)**	**30°C (86°F)**	**40°C (104°F)**
itself	Minimum	30 hours	24 hours	18 hours	10 hours	6 hours	4 hours
	Maximum	2 months	2 months	2 months	1 month	1 month	1 month

Curing time for DFT up to 75 µm (3.0 mils)		
Substrate temperature	**Dry to handle**	**Full cure**
5°C (41°F)	20 hours	10 days
10°C (50°F)	10 hours	7 days
20°C (68°F)	3 hours	5 days
40°C (104°F)	1 hour	3 days

Notes:

- When used as a primer under solvent-free tank-linings the DFT must be limited to a maximum of 100 µm (4.0 mils)
- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
5°C (41°F)	8 hours
10°C (50°F)	6 hours
15°C (59°F)	4 hours
20°C (68°F)	2 hours
40°C (104°F)	30 minutes

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.

PPG NOVAGUARD™ 260

REFERENCES

- Information sheet | Explanation of product data sheets

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