

PPG STEELGUARD ® 2458

DESCRIPTION

One-component, solvent-borne acrylic finish

PRINCIPAL CHARACTERISTICS

- Finish coat for STEELGUARD intumescent coatings
- Good gloss and color retention
- Resistant to water and splash of mild chemicals
- Fast-drying

COLOR AND GLOSS LEVEL

- White and various colors
- Low sheen

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.23 kg/l (10.26 lb/US gal)
Volume solids	45 ± 2%
VOC (Supplied)	Directive 2010/75/EC, SED: max. 430.0 g/kg UK PG 6/23(92) Appendix 3: max. 532.0 g/l (approx. 4.4 lb/US gal)
Recommended dry film thickness	50 - 125 µm (2.0 - 5.0 mils) depending on system
Theoretical spreading rate	6.00 m²/l for 75 µm (241 ft²/US gal for 3.0 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 4 hours Maximum: Unlimited
Shelf life	At least 24 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Previous coat must be sound, dry and free from any contamination

PPG STEELGUARD ® 2458

Substrate temperature and application conditions

- Substrate temperature during application and curing should be between 5°C (41°F) and 30°C (86°F)
- Substrate temperature during application and curing should be at least 3°C (37°F) above dew point
- Ambient temperature during application and curing should be between 5°C (41°F) and 30°C (86°F)
- Relative humidity during application and curing should not exceed 85%

INSTRUCTIONS FOR USE

- Stir well before use
- The temperature of the paint 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

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 – 5%

Nozzle orifice

Approx. 0.38 – 0.43 mm (0.015 – 0.017 in)

Nozzle pressure

20.0 MPa (approx. 200 bar; 2901 p.s.i.)

Brush/roller

- For small areas only (touch up and repair)

Recommended thinner

THINNER 21-06

Volume of thinner

0 – 3%

Cleaning solvent

- THINNER 21-06
-

PPG STEELGUARD® 2458

ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
50 µm (2.0 mils)	9.00 m ² /l (361 ft ² /US gal)
75 µm (3.0 mils)	6.00 m ² /l (241 ft ² /US gal)
100 µm (4.0 mils)	4.50 m ² /l (180 ft ² /US gal)
125 µm (5.0 mils)	3.60 m ² /l (144 ft ² /US gal)

Note:

- Maximum DFT when brushing: 50 µm (2.0 mils)

Overcoating interval for DFT up to 75 µm (3.0 mils)				
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	8 hours	4 hours	2 hours
	Maximum dry through	10 hours	7 hours	4 hours
	Maximum	Unlimited	Unlimited	Unlimited

Curing time for DFT up to 75 µm (3.0 mils)		
Substrate temperature	Dry to touch	Dry to handle
10°C (50°F)	2 hours	8 hours
20°C (68°F)	1 hours	4 hours
30°C (86°F)	30 minutes	2 hours

Note:

- Adequate ventilation must be maintained during application and curing

SAFETY PRECAUTIONS

- 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
- See Safety Data Sheet and product label for complete safety and precaution requirements

PPG STEELGUARD ® 2458

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

- Guide | PPG STEELGUARD | Application guidelines
- System sheet | PPG STEELGUARD | Approved primers
- System sheet | PPG STEELGUARD | Approved topcoats
- Information sheet | Explanation of product data sheets
- System sheet | PPG STEELGUARD | Systems and environments
- Information sheet | PPG Steelguard | FAQ's

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

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.