New Guard Coatings Group

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April 17, 2018 (Revision of March 24, 2015)

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
- Eggshell

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 1999/13/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 m^2/l for 75 µm (241 ft^2/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

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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 (5°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

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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	Unlimited	Unlimited	Unlimited
	Maximum dry through	10 hours	7 hours	4 hours

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 hour	4 hours
30°C (86°F)	30 minutes	2 hours

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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

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REFERENCES

• STEELGUARD™ APPLICATION GUIDELINES	INFORMATION SHEET	1222
• STEELGUARD™ QUALIFIED PRIMERS	INFORMATION SHEET	1224
• STEELGUARD™ QUALIFIED TOPCOATS	INFORMATION SHEET	1226
• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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