

New Guard Coatings Group

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SIGMARITE 37-G-1

DESCRIPTION

Temperature indication paint, green

PRINCIPAL CHARACTERISTICS

- Indicates potential dangerous hot spots
- Good weathering resistance
- Maintains its deep green color up to 260°C (500°F)
- Fades after 3 weeks at 280°C (536°F)
- Shows perceptible color change after 18 hours at 315°C (599°F)
- Changes to white in 3 hours at 400°C (752°F)
- Color change is irreversible

COLOR AND GLOSS LEVEL

- Green
- Flat

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.2 kg/l (10.0 lb/US gal)
Volume solids	44 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 398.0 g/kg UK PG 6/23(92) Appendix 3: max. 487.0 g/l (approx. 4.1 lb/US gal)
Recommended dry film thickness	25 - 40 µm (1.0 - 1.6 mils) depending on system
Theoretical spreading rate	17.6 m ² /l for 25 µm (706 ft ² /US gal for 1.0 mils)
Overcoating Interval	Minimum: 24 hours Maximum: Unlimited
Shelf life	At least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA - Spreading rate and film thickness
- See ADDITIONAL DATA - Overcoating intervals

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to a minimum of ISO-Sa2½, blasting profile 40 - 70 µm (1.6 - 2.8 mils)
- Suitable primer (DIMETCOTE 11) must be dry and free from any contamination



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Substrate temperature and application conditions

- Surface temperature during application should be between 5°C (41°F) and 60°C (140°F)
 - Surface temperature during application 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 50°C (122°F)
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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
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Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

1.8 - 2.0 mm (approx. 0.070 - 0.079 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

Airless spray

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.33 - 0.48 mm (0.013 - 0.019 in)

Nozzle pressure

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

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Brush/roller

Recommended thinner

THINNER 21-06

Volume of thinner

0 - 2%

Cleaning solvent

THINNER 21-06

ADDITIONAL DATA

Spreading rate and film thickness

DFT	Theoretical spreading rate
25 µm (1.0 mils)	17.6 m ² /l (706 ft ² /US gal)
40 µm (1.6 mils)	11.0 m ² /l (441 ft ² /US gal)

Overcoating interval for DFT up to 25 µm (1.0 mils)

Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	48 hours	24 hours	16 hours
	Maximum	Unlimited	Unlimited	Unlimited
	Maximum dry through	16 hours	4 hours	3 hours

Notes:

- Adequate ventilation must be maintained during application and curing
- Drying and curing times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions.

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
- Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods

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REFERENCES

• 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
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434

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