



# New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

[www.newguardcoatings.com](http://www.newguardcoatings.com)

NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

# 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 2010/75/EU, 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 <sup>2</sup> /l for 25 µm (706 ft <sup>2</sup> /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.)

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### **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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# SIGMARITE 37-G-1

## 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 <sup>2</sup> /l (706 ft <sup>2</sup> /US gal)
40 µm (1.6 mils)	11.0 m <sup>2</sup> /l (441 ft <sup>2</sup> /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

# SIGMARITE 37-G-1

## 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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