



# New Guard Coatings Group

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# SIGMAFAST™ 205 LT

## DESCRIPTION

Two-component, high-build, polyamide-cured zinc phosphate epoxy primer/coating

## PRINCIPAL CHARACTERISTICS

- General-purpose epoxy primer/coating for atmospheric conditions
- Good drying and curing property at low temperatures down to -5°C (23°F)
- Easy application by airless spray
- Recoatable with most two-component epoxy and polyurethane coatings
- Tough, with long-term flexibility

## COLOR AND GLOSS LEVEL

- A wide range of colors
- Semi-gloss

## BASIC DATA AT 10°C (50°F)

| Data for mixed product         |   |
|--------------------------------|---|
| Number of components           | Two   |
| Mass density                   | 1.4 kg/l (11.7 lb/US gal)   |
| Volume solids                  | 70 ± 2%   |
| VOC (Supplied)                 | Directive 1999/13/EC, SED: max. 213.0 g/kg<br>UK PG 6/23(92) Appendix 3: max. 310.0 g/l (approx. 2.6 lb/US gal)   |
| Recommended dry film thickness | 75 - 150 µm (3.0 - 6.0 mils) depending on system  |
| Theoretical spreading rate     | 9.3 m <sup>2</sup> /l for 75 µm (374 ft <sup>2</sup> /US gal for 3.0 mils)<br>4.7 m <sup>2</sup> /l for 150 µm (187 ft <sup>2</sup> /US gal for 6.0 mils) |
| Dry to touch                   | 3 hours   |
| Overcoating Interval           | Minimum: 3 hours<br>Maximum: 6 months   |
| Full cure after                | 5 days  |
| Shelf life                     | Base: at least 24 months when stored cool and dry<br>Hardener: 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

### Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 - 70 µm (1.6 - 2.8 mils)



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## **Concrete**

- Dried for at least 28 days in good ventilation conditions
  - Moisture content should not exceed 4.5%
  - Concrete must be free from laitance and any contamination
  - Rough surface; eventually abraded by power tool or diamond abrading tool
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## **Substrate temperature**

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
  - Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
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## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 75:25 (3:1)**

- 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
  - Thinner should be added after mixing the components
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## **Pot life**

6 hours at 10°C (50°F)

Note: See ADDITIONAL DATA – Pot life

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## **Air spray**

### **Recommended thinner**

THINNER 91-92

### **Volume of thinner**

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

### **Nozzle orifice**

1.5 – 3.0 mm (approx. 0.060 – 0.110 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 91-92

### Volume of thinner

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

### Nozzle orifice

Approx. 0.48 mm (0.019 in)

### Nozzle pressure

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

## Brush/roller

### 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                          |
| 75 µm (3.0 mils)                  | 9.3 m <sup>2</sup> /l (374 ft <sup>2</sup> /US gal) |
| 100 µm (4.0 mils)                 | 7.0 m <sup>2</sup> /l (281 ft <sup>2</sup> /US gal) |
| 150 µm (6.0 mils)                 | 4.7 m <sup>2</sup> /l (187 ft <sup>2</sup> /US gal) |

| Overcoating interval for DFT up to 75 µm (3.0 mils) |          |             |            |            |             |             |
|---|----------|-------------|------------|------------|-------------|-------------|
| Overcoating with...                                 | Interval | -5°C (23°F) | 0°C (32°F) | 5°C (41°F) | 10°C (50°F) | 20°C (68°F) |
| various two-pack epoxy and polyurethane coatings    | Minimum  | 22 hours    | 16 hours   | 5 hours    | 3 hours     | 2 hours     |
|   | Maximum  | 6 months    | 6 months   | 6 months   | 6 months    | 6 months    |

Note: Surface should be dry and free from any contamination

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| Overcoating interval for DFT up to 150 µm (6.0 mils) |          |             |            |            |             |             |
|--|----------|-------------|------------|------------|-------------|-------------|
| Overcoating with...                                  | Interval | -5°C (23°F) | 0°C (32°F) | 5°C (41°F) | 10°C (50°F) | 20°C (68°F) |
| various two-pack epoxy and polyurethane coatings     | Minimum  | 24 hours    | 18 hours   | 6 hours    | 4 hours     | 3 hours     |
|  | Maximum  | 6 months    | 6 months   | 6 months   | 6 months    | 6 months    |

Note: Surface should be dry and free from any contamination

| Curing time for DFT up to 75 µm (3.0 mils) |              |               |           |
|--|--------------|---------------|-----------|
| Substrate temperature                      | Dry to touch | Dry to handle | Full cure |
| -5°C (23°F)                                | 18 hours     | 21 hours      | 20 days   |
| 0°C (32°F)                                 | 15 hours     | 18 hours      | 12 days   |
| 5°C (41°F)                                 | 4 hours      | 7 hours       | 6 days    |
| 10°C (50°F)                                | 3 hours      | 5 hours       | 5 days    |
| 20°C (68°F)                                | 2 hours      | 3 hours       | 48 hours  |

| Curing time for DFT up to 150 µm (6.0 mils) |              |               |           |
|---|--------------|---------------|-----------|
| Substrate temperature                       | Dry to touch | Dry to handle | Full cure |
| -5°C (23°F)                                 | 20 hours     | 24 hours      | 21 days   |
| 0°C (32°F)                                  | 16 hours     | 20 hours      | 14 days   |
| 5°C (41°F)                                  | 5 hours      | 8 hours       | 7 days    |
| 10°C (50°F)                                 | 4 hours      | 6 hours       | 6 days    |
| 20°C (68°F)                                 | 3 hours      | 4 hours       | 3 days    |

Note: Adequate ventilation must be maintained during application and curing

| Pot life (at application viscosity) |           |
|-------------------------------------|-----------|
| Mixed product temperature           | Pot life  |
| 10°C (50°F)                         | 6 hours   |
| 20°C (68°F)                         | 4 hours   |
| 30°C (86°F)                         | 1.5 hours |

## 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

# SIGMAFAST™ 205 LT

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and 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

|   |                   |      |
|---|-------------------|------|
| • CONVERSION TABLES   | INFORMATION SHEET | 1410 |
| • EXPLANATION TO PRODUCT DATA SHEETS                          | INFORMATION SHEET | 1411 |
| • SAFETY INDICATIONS  | INFORMATION SHEET | 1430 |
| • RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE | INFORMATION SHEET | 1650 |

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