# **SIGMAFAST 213**



4 pages

September 2009 Revision of January 2008

**DESCRIPTION** two component high build polyamine cured vinyl epoxy primer

**PRINCIPAL CHARACTERISTICS** – epoxy primer or build coat in protective coating systems for steel structures

in atmospheric exposure
tough, with long term flexibility
cures at temperatures down to -5°C

- fast drying and handling

COLOURS AND GLOSS grey, yellow - flat

**BASIC DATA AT 20°C** (1 g/cm<sup>3</sup> = 8.25 lb/US gal; 1 m<sup>2</sup>/l = 40.7 ft<sup>2</sup>/US gal)

(data for mixed product)

Mass density 1.5 g/cm<sup>3</sup> Volume solids  $60 \pm 2\%$ 

VOC (supplied) max. 235 g/kg (Directive 1999/13/EC, SED)

max. 345 g/l (approx. 2.9 lb/gal) 80 - 180 µm depending on system

Recommended dry film thickness

Theoretical spreading rate

7.5 m<sup>2</sup>/l for 80  $\mu$ m, 3.3 m<sup>2</sup>/l for 180  $\mu$ m \*

Touch dry after 50 minutes
Overcoating interval min. 1 hour \*
max. 1 year \*

(data for components)

Shelf life (cool and dry place)

Flash point

at least 12 months

<21°C

\* see additional data

RECOMMENDED SUBSTRATE CONDITIONS

AND TEMPERATURES

steel; blast cleaned to ISO-Sa2½, blasting profile 40 - 70 μm

during application and curing a substrate temperature down to -5°C is

acceptable provided the substrate is dry and free from icesubstrate temperature should be at least 3°C above dew point

maximum relative humidity during application and curing is 85%

**INSTRUCTIONS FOR USE** mixing ratio by volume: base to hardener 80 : 20

 the temperature of the mixed base and hardener should preferably be above 15°C, otherwise extra solvent may be required to obtain application viscosity

too much solvent results in reduced sag resistance and slower cure

thinner should be added after mixing the components

Induction time 15 minutes at 20°C

Pot life 6 hours at 20°C \*

\* see additional data

**AIRLESS SPRAY** 

Recommended thinner Thinner 21-06

Volume of thinner 20 - 30%, depending on required thickness and application conditions





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Nozzle orifice approx. 0.48 mm (= 0.019 in)

Nozzle pressure 15 MPa (= approx. 150 bar; 2130 p.s.i.)

**AIR SPRAY** 

Recommended thinner Thinner 21-06

Volume of thinner 20 - 30%, depending on required thickness and application conditions

Nozzle orifice 1.5 - 3 mm

Nozzle pressure 0.3 - 0.4 MPa (= approx. 3 - 4 bar; 43 - 57 p.s.i.)

**BRUSH** 

Recommended thinner Thinner 21-06
Volume of thinner 0 - 5%

CLEANING SOLVENT Thinner 90-53

**SAFETY PRECAUTIONS** for paint and recommended thinners see safety 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 vapour as well as contact between the wet paint and exposed skin

or eyes

ADDITIONAL DATA Film thickness and spreading rate

theoretical spreading rate m²/l	7.5	6.0	3.3	
dft in µm	80	100	180	

#### Overcoating table for 80 µm dft

substrate temperature	0°C	10°C	20°C	30°C
minimum interval	3 hours	1.5 hour	45 min.	25 min.
maximum interval	12 months	12 months	12 months	12 months

surface should be dry and free from any contamination





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## Overcoating table for 150 µm dft

substrate temperature	0°C	10°C	20°C	30°C
minimum interval	4.5 hours	2.5 hours	1 hour	35 min.
maximum interval	12 months	12 months	12 months	12 months

surface should be dry and free from any contamination

## Worldwide availability

Whilst it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, 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**

Explanation to product data sheets	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
Safe working in confined spaces	see information sheet 1433
Directives for ventilation practice	see information sheet 1434
Cleaning of steel and removal of rust	see information sheet 1490





## **DATA**

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#### LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Sigma Coatings products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

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219313	yellow	3000002200
219315	grey	5000002200



