

SIGMAFAST 205

4 pages

September 2009
Revision of May 2008

DESCRIPTION	two component high build polyamide cured zinc phosphate epoxy primer/ coating
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - general purpose epoxy primer/coating for atmospheric conditions - fast curing - recoatable with most two component epoxy- and polyurethane coatings - tough, with long term flexibility - easy application by airless spray
COLOURS AND GLOSS	grey (other (RAL) colours on request) - eggshell
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal) (data for mixed product)
Mass density	1.4 g/cm ³
Volume solids	70 ± 2%
VOC (supplied)	max. 224 g/kg (Directive 1999/13/EC, SED) max. 322 g/l (approx. 2.7 lb/gal)
Recommended dry film thickness	80 - 120 µm depending on system
Theoretical spreading rate	8.8 m ² /l for 80 µm, 5.8 m ² /l for 120 µm
Touch dry after	2 hours
Overcoating interval	min. 4 hours for 120 µm dft * max. 6 months *
Full cure after	4 days * (data for components)
Shelf life (cool and dry place)	at least 12 months * see additional data
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> - steel; blast cleaned to ISO-Sa2½, blasting profile 40 - 70 µm - substrate temperature should be above 5°C and at least 3°C above dew point during application and curing
INSTRUCTIONS FOR USE	<p>mixing ratio by volume: base to hardener 75 : 25</p> <ul style="list-style-type: none"> - 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	none above 10°C 10 minutes if applied at temperatures below 10°C
Pot life	6 hours at 20°C *

SIGMAFAST 205

September 2009

AIRLESS SPRAY

Recommended thinner Thinner 91-92
 Volume of thinner 0 - 5%, depending on required thickness and application conditions
 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 91-92
 Volume of thinner 5 - 15%, 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/ROLLER

Recommended thinner Thinner 91-92
 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 m ² /l	8.8	7.0	5.8
dft in µm	80	100	120

Overcoating table for SigmaFast 205 for dft up to 120 µm

with SigmaFast 205, SigmaCover 435 and SigmaCover 456

substrate temperature	5°C	10°C	20°C	30°C	40°C
minimum interval	10 hours	6 hours	4 hours	3 hours	2 hours
maximum interval	6 months	6 months	6 months	6 months	6 months

– surface should be dry and free from any contamination

SIGMAFAST 205

September 2009

with various two component polyurethane coatings

Overcoating table for SigmaFast 205 for dft up to 120 µm

substrate temperature	5°C	10°C	20°C	30°C	40°C
minimum interval	2 days	24 hours	12 hours	8 hours	6 hours
maximum interval	6 months	6 months	6 months	6 months	6 months

- surface should be dry and free from any contamination

Curing table

substrate temperature	dry to handle	full cure
5°C	18 hours	8 days
10°C	12 hours	6 days
20°C	6 hours	4 days
30°C	4 hours	3 days
40°C	3 hours	2 days

- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)

Pot life (at application viscosity)

10°C	10 hours
20°C	6 hours
30°C	3 hours

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

SIGMAFAST 205

September 2009

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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