

SIGMA AQUACOVER 25

4 pages

May 2011
Revision of October 2009

DESCRIPTION

one component water borne acrylic zinc phosphate primer

PRINCIPAL CHARACTERISTICS

- primer for interior accommodation, machinery spaces and superstructure
- particularly suitable when solvents are not permitted because of health and safety reasons
- excellent adhesion to various types of old or weathered paints
- good adhesion to steel
- good anticorrosive properties
- fast drying and recoatable
- can be overcoated with most dispersion paints and alkyd paints
- allows safer working during hull outfitting of new buildings
- certificate for low flame spread: see sheet 1883

COLOURS AND GLOSS

buff, offwhite - flat

BASIC DATA AT 20°C

(1 g/cm³ = 8.35 lb/US gal; 1 m²/l = 40.7 ft²/US gal)

Mass density

1.3 g/cm³

Volume solids

44 ± 2%

VOC (supplied)

max. 24 g/kg (Directive 1999/13/EC, SED)

max. 31 g/l (approx. 0.3 lb/gal)

Recommended dry film thickness

50 - 75 µm per coat

Theoretical spreading rate

8.8 m²/l for 50 µm, 6.6 m²/l for 75 µm

Touch dry after

4 hours at 5°C, 2 hours at 10°C, 45 - 60 minutes at 20°C

Overcoating interval

min. 4 hours

max. unlimited

Shelf life (cool and dry place)

at least 12 months, keep above 0°C

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- steel; blast cleaned to ISO-Sa2½, blasting profile 40 - 70 µm or power tool cleaned to min. ISO-St3
- steel with approved shop primer; sweep blasted to SPSS-Ss or power tool cleaned to SPSS-Pt2
- previous suitable coat; dry and free from any contamination
- substrate temperature should be at least 5°C and at least 3°C above dew point during application and curing
- maximum relative humidity during application and curing is 75%

SYSTEM SPECIFICATION

marine

system sheets: 3104, 3105

INSTRUCTIONS FOR USE

- stir well before use
- the temperature of the paint should preferably be above 15°C, otherwise extra tap water may be required to obtain application viscosity
- too much tap water results in reduced sag resistance
- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)
- must be protected from freezing at all times during storage and/or transport

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AIRLESS SPRAY

Recommended thinner	tap water
Volume of thinner	0 - 5%, depending on required thickness and application conditions
Nozzle orifice	approx. 0.48 - 0.58 mm (= 0.019 - 0.023 in)
Nozzle pressure	12 - 15 MPa (= approx. 120 - 150 bar; 1700 - 2130 p.s.i.)

BRUSH/ROLLER

Recommended thinner	long haired brush or polyether roller with rounded edges
Volume of thinner	tap water
	0 - 5%

CLEANING SOLVENT

tap water and Thinner 70-05
– Cleaning Procedures of the spray equipment:
– pulsator filter and tip filter must be taken out of the equipment and cleaned properly
– following tables illustrate the cleaning procedure of the spray equipment when changing spraying from solvent borne paint to water borne paints (table 1) and from water borne paints to solvent borne paints (table 2)

CLEANING PROCEDURE**Table 1: from solvent borne- to water borne paints**

1st cleaning	with Thinner 90-53
2nd cleaning	with Thinner 70-05
3rd cleaning	with warm tap water (30 - 35°C) after which water borne paints can be sprayed

Table 2: from water borne- to solvent borne paints

1st cleaning	with warm tap water (30 - 35°C)
2nd cleaning	with Thinner 70-05
3rd cleaning	with Thinner 90-53

Thinner 70-05 can be re-used

SAFETY PRECAUTIONS

for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets

although this is a water borne paint, 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	6.6
dft in µm	50	75

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max. dft when brushing:

50 µm

Overcoating table for Sigma Aquacover 25 for dft up to 75 µm

with itself

substrate temperature	5°C	10°C	20°C
minimum interval	8 hours	6 hours	4 hours
maximum interval	unlimited	unlimited	unlimited

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

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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.

	PDS	7150
146106	offwhite	7001002200
173148	buff	3147052200