

SIGMA AQUACOVER 45

3 pages

September 2009
Revision of April 2007

DESCRIPTION	one component water borne acrylic dispersion finish
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - finish for interior accommodation, machinery spaces and superstructure - particularly suitable when solvents are not permitted because of health and safety reasons - fast drying and recoatable - good weather resistance - good colour retention - allows safer working during hull outfitting of new buildings - certificate for low flame spread: see sheet 1883
COLOURS AND GLOSS	white (other colours on request) - gloss
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal)
Mass density	1.2 g/cm ³
Volume solids	34 ± 2%, depending on colour
VOC (supplied)	max. 9 g/kg (Directive 1999/13/EC, SED) max. 10 g/l (approx. 0.1 lb/gal)
Recommended dry film thickness	50 µm per coat
Theoretical spreading rate	6.8 m ² /l for 50 µm
Touch dry after	6 hours at 5°C, 3 hours at 10°C, 1 hour at 20°C
Overcoating interval	min. 6 hours * max. unlimited *
Shelf life (cool and dry place)	at least 12 months, keep above 0°C
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> - previous suitable coat; (e.g. Sigma Aquacover 25) 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	<ul style="list-style-type: none"> - 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
AIRLESS SPRAY	
Recommended thinner	tap water
Volume of thinner	0 - 5%, depending on required thickness and application conditions
Nozzle orifice	approx. 0.28 - 0.33 mm (= 0.011 - 0.013 in)
Nozzle pressure	12 - 15 MPa (= approx. 120 - 150 bar; 1700 - 2130 p.s.i.)

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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 solvent free paint, care should be taken to avoid inhalation of spray mist as well as contact between the wet paint and exposed skin or eyes

ADDITIONAL DATA

with itself

Overcoating table for Sigma Aquacover 45 for dft up to 50 µm

substrate temperature	5°C	10°C	20°C	30°C
minimum interval	16 hours	6 hours	4 hours	3 hours
maximum interval	unlimited	unlimited	unlimited	unlimited

– surface should be dry and free from any contamination

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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

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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146103	white	7000002200
146104	white	7000001400