

# PPG AQUACOVER™ 45

(SIGMA AQUACOVER™ 45)

## DESCRIPTION

One-component, waterborne acrylic dispersion finish

## PRINCIPAL CHARACTERISTICS

- 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 color retention
- Allows safer working during hull outfitting of new-buildings

## COLOR AND GLOSS LEVEL

- White (other colors available on request)
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.2 kg/l (10.0 lb/US gal)
Volume solids	34 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 9.0 g/kg max. 10.0 g/l (approx. 0.1 lb/US gal)
Recommended dry film thickness	50 µm (2.0 mils) per coat
Theoretical spreading rate	6.8 m <sup>2</sup> /l for 50 µm (273 ft <sup>2</sup> /US gal for 2.0 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 6 hours Maximum: Unlimited
Shelf life	At least 18 months when stored cool and dry

Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Substrate conditions

- Compatible previous coat must be dry and free from any contamination



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## **Substrate temperature and application conditions**

- Substrate temperature during application should be at least 5°C (41°F)
  - Substrate temperature during application should be at least 3°C (5°F) above dew point
  - Relative humidity during application should not exceed 75%
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## **SYSTEM SPECIFICATION**

- SYSTEMS FOR SUPERSTRUCTURE AND DECK FITTINGS – SYSTEM SHEET 3104
  - SYSTEMS FOR INTERIOR(S) – SYSTEM SHEET 3105
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## **INSTRUCTIONS FOR USE**

- Stir well before use
  - The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner 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 INFORMATION SHEETS 1433 and 1434)
  - Must be protected from freezing at all times during storage and/or transport
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### **Air spray**

#### **Recommended thinner**

Tap water

#### **Volume of thinner**

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

#### **Nozzle orifice**

1.8 - 2.0 mm (approx. 0.070 - 0.079 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**

Tap water

### **Volume of thinner**

0 - 5%, depending on required thickness and application conditions

### **Nozzle orifice**

Approx. 0.46 - 0.53 mm (0.018 - 0.021 in)

### **Nozzle pressure**

12.0 - 15.0 MPa (approx. 120 - 150 bar; 1741 - 2176 p.s.i.)

## Brush/roller

- Long haired brush or polyether roller with rounded edges

### **Recommended thinner**

Tap water

### **Volume of thinner**

0 - 5%

## Cleaning solvent

Tap water and THINNER 70-05

## Cleaning procedures

- Pulsator filter and tip filter must be taken out of the equipment and cleaned properly
- The following tables illustrate the cleaning procedure of the spray equipment when changing from spraying with solvent-borne paint to waterborne paints (table 1) and from waterborne paints to solvent-borne paints (table 2)

**Table 1: Cleaning procedure from solvent-borne to waterborne paints**

Steps	Cleaning text
1st cleaning	THINNER 90-53
2nd cleaning	THINNER 70-05
3rd cleaning	With warm tap water of 30°C (86°F) to 35°C (95°F) after which waterborne paints can be sprayed

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**Table 2: Cleaning procedure from waterborne to solvent-borne paints**

Steps	Cleaning text
1st cleaning	Warm tap water of 30°C (86°F) to 35°C (95°F)
2nd cleaning	THINNER 70-05
3rd cleaning	THINNER 90-53

Note: THINNER 70-05 can be re-used

## ADDITIONAL DATA

**Overcoating interval for DFT up to 50 µm (2.0 mils)**

Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	16 hours	6 hours	4 hours	3 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination

## SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION 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

## 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

• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434



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