

New Guard Coatings Group

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PPG AQUACOVER™ 40

(SIGMA AQUACOVER™ 40)

DESCRIPTION

One-component, waterborne acrylic dispersion finish

PRINCIPAL CHARACTERISTICS

- Particularly suitable when solvents are not permitted because of health and safety reasons
- Good weather resistance
- Good color retention
- Fast-drying
- Fast-handling
- Not suitable for immersion in water

COLOR AND GLOSS LEVEL

- RAL colors (other colors available on request)
- Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.1 kg/l (9.2 lb/US gal)
Volume solids	42 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 12.0 g/kg UK PG 6/23(92) Appendix 3: max. 14.0 g/l (approx. 0.1 lb/US gal)
Recommended dry film thickness	50 µm (2.0 mils) per coat
Theoretical spreading rate	8.4 m ² /l for 50 µm (337 ft ² /US gal for 2.0 mils)
Dry to touch	30 minutes
Overcoating Interval	Minimum: 4 hours Maximum: Unlimited
Shelf life	At least 18 months when stored cool and dry

Note: See ADDITIONAL DATA – Overcoating intervals

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel coated with suitable primer (e.g. SIGMA AQUACOVER 20)
- Suitable primer must be dry and free from any contamination



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Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
 - Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
 - Relative humidity during application and curing should not exceed 75%
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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
 - 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.)

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.)

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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

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

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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 waterborne 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

• CONVERSION TABLES	INFORMATION SHEET	1410
• 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
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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