



# New Guard Coatings Group

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This information is not exhaustive and it is the user's responsibility to ensure that this data sheet is the most current by contacting their local New Guard Coatings Group branch prior to using the coating/product.

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# PPG AQUACOVER™ 20

(SIGMA AQUACOVER™ 20)

## DESCRIPTION

One-component, waterborne, high-build zinc phosphate primer/coating, based on acrylic dispersion

## PRINCIPAL CHARACTERISTICS

- Particularly suitable when solvents are not permitted because of health and safety reasons
- Excellent adhesion to well-pretreated steel
- Good anticorrosive properties
- Fast-drying
- Can be overcoated with most waterborne acrylics, solvent-borne epoxy coatings and alkyd paints, as well as certain solvent-borne, two-component products

## COLOR AND GLOSS LEVEL

- RAL colors (other colors available on request)
- Flat

## BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	43 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 19.0 g/kg UK PG 6/23(92) Appendix 3: max. 25.0 g/l (approx. 0.2 lb/US gal)
Recommended dry film thickness	75 µm (3.0 mils) per coat
Theoretical spreading rate	5.7 m <sup>2</sup> /l for 75 µm (230 ft <sup>2</sup> /US gal for 3.0 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; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 µm (1.6 – 2.8 mils)
- Steel; pretreated according to ISO-St3
- Shop primed steel; sweep blasted or power tool cleaned to SPSS-Ss or SPSS-Pt2



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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.)

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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.)

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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 75 µm (3.0 mils)					
Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
waterborne acrylic and alkyd finishes	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
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

## WARRANTY

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