

# PPG AQUACOVER™ 200

(SIGMA AQUACOVER™ 200)

## DESCRIPTION

Two-component, polyamine-cured, waterborne epoxy primer

## PRINCIPAL CHARACTERISTICS

- General-purpose epoxy primer in protective coating systems for steel structures in atmospheric exposure
- Particularly suitable when solvents are not permitted because of health and safety reasons
- Excellent rust preventing properties in industrial or coastal atmospheres
- Good adhesion to steel and galvanized steel
- Free from lead- and chromate-containing pigments
- Can be overcoated with most dispersion and alkyd paints, and two-component durable finishes
- Easy application by brush/roller and (airless) spray
- Suitable for application on concrete

## COLOR AND GLOSS LEVEL

- Gray (RAL 7038), buff (RAL 1015)
- Eggshell

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	53 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 5.0 g/kg UK PG 6/23(92) Appendix 3: max. 6.0 g/l (approx. 0.1 lb/US gal)
Recommended dry film thickness	75 - 100 µm (3.0 - 4.0 mils) depending on system
Theoretical spreading rate	7.1 m²/l for 75 µm (283 ft²/US gal for 3.0 mils) 5.3 m²/l for 100 µm (213 ft²/US gal for 4.0 mils)
Dry to touch	1.5 hours
Overcoating Interval	Minimum: 2 hours Maximum: 6 months
Full cure after	4 days
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 6 months when stored cool and dry

### Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time



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## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Substrate conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 µm (1.6 – 2.8 mils) or power tool cleaned to min. ISO-St3
- Galvanized surfaces are variable and the preferred method of treatment is to lightly sweep blast followed by degreasing and cleaning
- Concrete; surface must be cured, clean, dry and free of desintegrated or chalky materials

### Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 10°C (50°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%

## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 70:30

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Too much water results in reduced sag resistance and slower cure
- Water should be added after mixing the components
- 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

### Induction time

None

### Pot life

3 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

### Airless spray

#### **Recommended thinner**

Tap water

#### **Volume of thinner**

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

#### **Nozzle orifice**

Approx. 0.48 mm (0.019 in)

#### **Nozzle pressure**

15.0 MPa (approx. 150 bar; 2176 p.s.i.)



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## **Brush/roller**

### **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

## **ADDITIONAL DATA**

**Overcoating interval for DFT up to 100 µm (4.0 mils)**

Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
PPG AQUACOVER 400	Minimum	3 hours	2 hours	1 hour	45 minutes
	Maximum	6 months	6 months	6 months	6 months
SIGMADUR 520 and SIGMADUR 550	Minimum	24 hours	16 hours	12 hours	8 hours
	Maximum	6 months	6 months	6 months	6 months

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## Curing time for DFT up to 100 µm (4.0 mils)

Substrate temperature	Dry to touch	Dry to handle	Full cure
10°C (50°F)	3 hours	16 hours	6 days
20°C (68°F)	1.5 hours	5 hours	4 days
30°C (86°F)	1 hour	4 hours	3 days
40°C (104°F)	45 minutes	3 hours	48 hours

## Pot life (at application viscosity)

Mixed product temperature	Pot life
10°C (50°F)	4 hours
20°C (68°F)	3 hours
30°C (86°F)	2 hours
40°C (104°F)	1 hour

## 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
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650



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