

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 2010/75/EU, 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 m ² /l for 75 µm (283 ft ² /US gal for 3.0 mils) 5.3 m ² /l for 100 µm (213 ft ² /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
- Concrete; surface must be cured, clean, dry and free of desintegrated or chalky materials

Galvanized steel

- The surface must be properly prepared, dry, clean and free of any contamination
- The surface should be sufficiently roughened by sweep blasting to achieve a uniform matt appearance
- Sweep blast in accordance with the SSPC SP-16 guidelines

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
- 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



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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. 0.48 mm (0.019 in)

Nozzle pressure

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

Brush/roller

Recommended thinner

Tap water

Volume of thinner

0 - 5%

Cleaning solvent

Tap water and THINNER 40-25, THINNER 70-05 or THINNER 70-04,

Note: Please contact your PPG representative for availability in your region

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 40-25, THINNER 70-05 or THINNER 70-04
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 40-25, THINNER 70-05 or THINNER 70-04
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

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

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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



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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

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