

AMERCOAT® 5105

DESCRIPTION

Alkyd primer

PRINCIPAL CHARACTERISTICS

- VOC Compliant <2.8 lb/ gal
- Excellent spray application properties
- Resists corrosion

COLOR AND GLOSS LEVEL

- Red oxide, off white, gray
- Flat

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	60 ± 2%
VOC (Supplied)	max. 2.3 lb/US gal (approx. 279 g/l)
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 µm) depending on system
Theoretical spreading rate	481 ft ² /US gal for 2.0 mils (12.0 m ² /l for 50 µm)
Shelf life	At least 24 months when stored cool and dry

Notes:

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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is, in general, proportional to the degree of surface preparation

Steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Power tool clean in accordance with SSPC SP-3 or hand tool clean to SSPC SP-2 requirements. Alternately, abrasive blast to SSPC SP-7 requirements. Abrasive blasting to SSPC SP-6 or better is also allowable and will give the best possible system performance
- Achieve a blast profile of 1.0 - 2.5 mils (25 - 64 µm)
- Avoid over-blasting as pin-point rusting may develop



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Non-ferrous metals and stainless steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
 - Lightly abrasive blast with fine abrasive to produce a uniform and dense anchor profile of 1.0 – 2.5 mils (25 – 64 µm) in accordance with SSPC SP-16. Alternately, disc grind or power sand with a hard grit to achieve a uniform and dense profile (minimum of 1.0 mil (25 µm))
 - Do not apply over galvanizing, zinc coatings, or concrete
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Substrate temperature

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C)
 - Surface temperature during application should be at least 5°F (3°C) above dew point
 - Ambient temperature during application and curing should be between 40°F (4°C) and 100°F (38°C)
 - Relative humidity during application should not exceed 85%
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SYSTEM SPECIFICATION

- Primers: Direct to substrate, application over aged coatings that are cleaned and abraded
- Topcoats: AMERCOAT 5400-series alkyds, 7-line alkyds

Note: A test patch is recommended

INSTRUCTIONS FOR USE

- Agitate with a power mixer for 1 – 2 minutes until completely dispersed. Ensure good off-bottom mixing
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Application

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)

Air spray

- Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.

Recommended thinner

THINNER 20-05 (AMERCOAT 15) (mineral spirits))

Volume of thinner

0 - 20%

Nozzle orifice

Approx. 0.070 in (1.8 mm)



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Airless spray

- 30:1 pump or larger

Recommended thinner

THINNER 20-05 (AMERCOAT 15) (mineral spirits))

Volume of thinner

0 - 5%

Nozzle orifice

0.013 – 0.015 in (approx. 0.33 – 0.38 mm)

Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build
- Level air bubbles with a brush

Recommended thinner

AMERCOAT 15 (mineral spirits)

Volume of thinner

0 - 5%

Cleaning solvent

AMERCOAT 12 CLEANER or AMERCOAT 65 THINNER (xylene)

ADDITIONAL DATA

Overcoating interval for DFT up to 3.0 mils (75 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	24 hours	12 hours	8 hours
	Maximum	Unlimited	Unlimited	Unlimited

Note: Dry times are dependent on air and surface temperatures as well as film thickness, ventilation, and relative humidity. Maximum recoating time is highly dependent upon actual surface temperatures – not simply air temperatures. Surface temperatures should be monitored, especially with sun-exposed or otherwise heated surfaces. Higher surface temperatures shorten the maximum recoat window



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Curing time for DFT up to 3.0 mils (75 µm)			
Substrate temperature	Dry to touch	Dry hard	Full cure
50°F (10°C)	4 hours	12 hours	48 hours
70°F (21°C)	2 hours	6 hours	24 hours
90°F (32°C)	75 minutes	4 hours	16 hours

Product Qualifications

- Performance offset to Federal Standards TT-P-645, TT-P-664, and TT-P-1385
- MPI Category #76 – Quick drying alkyd metal primer

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, 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

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|--------------------------------------|-------------------|------|
| • CONVERSION TABLES | INFORMATION SHEET | 1410 |
| • EXPLANATION TO PRODUCT DATA SHEETS | INFORMATION SHEET | 1411 |

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Packaging: Available in 1-gallon and 5-gallon kits

Product code	Description
AT510523	Pearl Gray
AT51053	White
AT510572	Oxide Red

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