

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 20°C (68°F)

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



AMERCOAT® 5105

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
-

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%
-

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
-

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)
-

AMERCOAT® 5105

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)

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%

AMERCOAT® 5105

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

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

- Information sheet | Explanation of product data sheets



AMERCOAT® 5105

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

AVAILABILITY OF PACKAGING

Depending on specific country of application the following versions are available:

Product	Color
AT510523	Pearl Gray
AT510572	Oxide Red
AT51053	White

