

AMERCOAT® 220 P

DESCRIPTION

One-component, int./ext gloss DTM Industrial enamel

PRINCIPAL CHARACTERISTICS

- Waterborne acrylic enamel
- Ease of application, brush, roll, or spray
- Soap and water clean up
- Low odor during application
- Excellent gloss retention and weathering
- Self Priming in many applications
- Washable, scrub resistant

COLOR AND GLOSS LEVEL

- White, deep tint, white light tint, neutral tint, ultra tint
- Gloss

Note: Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	37 ± 2%
VOC (Supplied)	max. 1.6 lb/US gal (approx. 192 g/l)
Temperature resistance (Continuous)	To 180°F (82°C)
Temperature resistance (Intermittent)	To 200°F (93°C)
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 µm) depending on system
Theoretical spreading rate	297 ft ² /US gal for 2.0 mils (7.4 m ² /l for 50 µm)
Shelf life	At least 36 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours
- Color will drift at elevated temperatures



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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings require abrading prior to applying the product. A test patch over unknown coatings is recommended.

Steel

- Use a suitable primer for corrosive environments
- 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
- Note that a primer must be used on all bare metal substrates when using colors made from Midtone, Deeptone, and Deep Rustic bases

Non-ferrous metals and galvanizing

- Remove oil or soap film with detergent or emulsion cleaner as per SSPC SP-1 and galvanizing requirements, then use a phosphatizing conversion coating
- 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))
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all contaminants and white rust
- Galvanized surfaces that have been passivated with a chromate treatment must be abrasive blasted. Coatings may not adhere to chromate sealed galvanizing if the chromates are not completely removed.

Concrete / Masonry

- Clean concrete surface, abrasive blast per ASTM D4259 or acid-etch in accordance with ASTM D 4260
- Fill concrete voids with AMERCOAT 965 or AMERCOAT 114 A
- Clean masonry surfaces by ASTM D4261
- Fill masonry block with AMERLOCK 400 BF block filler or PPG 4-100 acrylic block filler

Dry wall

- Tape all joints, fill cracks and nail holes with patching, paste or spackle; sand smooth. Remove all dust. Unsealed drywall will require at least 2 coats of this product

Substrate temperature and application conditions

- Surface temperature during application should be between 50°F (10°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 50°F (10°C) and 100°F (38°C)
 - Relative humidity during application should not exceed 85%
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SYSTEM SPECIFICATION

- Primers for concrete, masonry, stucco, plaster: 4-603, 4-808, AMERLOCK SERIES (concrete)
- Primers for CMU: 4-100, AMERLOCK 400BF, 6-15, 16-90
- Primers for ferrous metal: self priming, 90-712, METALHIDE 2000, 6-208, 7-852, AMERLOCK 2/400, DIMETCOTE 9 SERIES
- Primers for non-ferrous metals: self priming, 90-712 6-204, 6-208, 6-209
- Primers for drywall: 6-2, 9-900, 17-921

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
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush.
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns
- Avoid exterior painting late in the day or when dew or condensation are likely to form or if rain is expected

Material temperature

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

Air spray

- Use standard conventional equipment

Nozzle orifice

Approx. 0.070 in (1.8 mm)

Nozzle pressure

Atomizing pressure 55 - 70 p.s.i. (4.0 - 5.0 bar); Fluid pressure as required

Airless spray

- 28:1 pump or larger
- A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination

Nozzle orifice

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



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Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

Recommended thinner

Tap water

Volume of thinner

0 – 5%

Cleaning solvent

Soap and water

ADDITIONAL DATA**Overcoating interval for DFT up to 2.0 mils (51 µm)**

Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	12 hours	4 hours	2 hours
	Maximum	Unlimited	Unlimited	Unlimited

Curing time for DFT up to 2.0 mils (51 µm)

Substrate temperature	Dry to touch	Dry to handle
50°F (10°C)	2.5 hours	12 hours
70°F (21°C)	70 minutes	4 hours
90°F (32°C)	40 minutes	2 hours

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- Meets MPI Category #154, Interior W.B. Light Industrial Coating
- Can help earn LEED 2009 credits
- Performance offset to Federal Standard TT-E-2784

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

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.

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REFERENCES

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

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Packaging: Available in 1 and 5 gallon containers

Product code	Description
AT220P-T1	AMCT 220P Deep Tint
AT220P-T2	AMCT 220P White and light tint
AT220P-T3	AMCT 220P Neutral tint
AT220P-T6	AMCT 220P Ultra tint

Notes:

- Refer to the appropriate color formula book, automatic tinting equipment, and/or computer color matching system for color formulas and tinting instructions
- Deep, Neutral, and Ultra Tint bases must be tinted

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