

AMERCOAT® 220

DESCRIPTION

One-component, waterborne acrylic topcoat

PRINCIPAL CHARACTERISTICS

- Ease of application, brush, roll, or spray
- Excellent gloss retention and weathering
- Self priming
- VOC compliant
- Washable, scrub resistant

COLOR AND GLOSS LEVEL

- Standard Color Offering, Safety Colors, Custom Colors
- Clear
- Semi-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 20°C (68°F)

Data for mixed product	
Number of components	One
Mass density	1.20 kg/l (10.01 lb/US gal) Clear: 1.0 kg/l (8.6 lb/US gal)
Volume solids	35 ± 2%
VOC (Supplied)	max. 180.0 g/l (approx. 1.5 lb/US gal) China GB 30981-2020 (tested) 25.0 g/l (approx. 0.2 lb/gal)
Recommended dry film thickness	50 - 75 µm (2.0 - 3.0 mils) depending on system
Theoretical spreading rate	7.0 m ² /l for 50 µm (281 ft ² /US gal for 2.0 mils)
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 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.



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Carbon steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
 - Power tool cleaning in accordance with ISO- St2 / St3 (SSPC SP-2 or 3) requirements
 - Alternately, abrasive blast to ISO Sa 1 (SSPC SP-7) required. Abrasive blasting to ISO Sa 2 (SSPC SP-6) or more is also allowable and will give the best possible system performance
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Non-ferrous metals and galvanizing

- Remove oil or soap film with detergent or emulsion cleaner, then use a phosphatizing conversion coating
 - Alternately, power tool clean to uniformly abrade the surface or lightly abrasive blast with a fine abrasive to produce a uniform and dense anchor profile of 1.0 – 2.0 mils (25 – 50 µm) in accordance with SSPC SP-16.
 - Galvanizing that has had at least 24 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.
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Concrete / Masonry

- Clean concrete surface, abrasive blast per ASTM D4259 or acid-etch in accordance with ASTM D 4260
 - Clean masonry surfaces by ASTM D4261
 - AMERCOAT 114 A may be used as a pit filler. Check with PPG Technical Service for alternative
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Wood

- Sand new bare wood to remove any surface contamination and surface cells
 - Remove oil spots, sap or pitch by wiping with THINNER 21-06 (AMERCOAT 65). Properly dispose of solvent rags to avoid spontaneous combustion hazard
 - A wood primer or a first coat of AMERCOAT 220 may be used to prime the surface
 - To recoat primed wood, remove all dirt, grease, or oil with a cleaner. Rinse with clean water. Remove wax with a commercial de-waxer. Sand loose paint to a tight, adherent surface
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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
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Substrate temperature and application conditions

- Surface temperature during application should be between 5°C (41°F) and 50°C (122°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 85%
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SYSTEM SPECIFICATION

- Primers: Direct to substrate, DIMETCOTE Series, AMERCOAT 68 Series, AMERLOCK 400 / 2 Series, SIGMAZINC Series, AMERCOAT Epoxies and SIGMA Epoxies
- For products not listed above, contact your PPG representative
- Can be used as curing membrane to be applied to the surface of freshly installed mortars, fairing coatings and cementitious coatings to retain moisture and assist cure

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

Material temperature

Material temperature during application should be between 10°C (50°F) and 20°C (68°F)

Air spray

- Use standard conventional equipment
- A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination.

Recommended thinner

Tap water

Volume of thinner

0 - 5%

Nozzle orifice

1.5 – 2.0 mm (approx. 0.060 – 0.079 in)

Airless spray

- 28:1 pump or larger

Recommended thinner

Tap water

Volume of thinner

0 - 5%

Nozzle orifice

Approx. 0.38 – 0.43 mm (0.015 – 0.017 in)



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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

Tap water

ADDITIONAL DATA**Overcoating interval for DFT up to 50 µm (2.0 mils)**

Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	13 hours	3 hours	1 hour
	Maximum	Unlimited	Unlimited	Unlimited

Curing time for DFT up to 50 µm (2.0 mils)

Substrate temperature	Dry to touch	Dry to handle
10°C (50°F)	1 hour	13 hours
20°C (68°F)	20 minutes	3 hours
30°C (86°F)	15 minutes	1 hour

Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- NFPA Class A Flame Spread
- Nuclear Service Level 2 (partial)

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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