AMERCOAT 1202

DESCRIPTION

Ultra High solids, direct to metal epoxy designed for rail, and a variety of transportation and infrastructure applications.

PRINCIPAL CHARACTERISTICS

- Fast dry times for rapid topcoating
- Low VOC, low HAPs
- Excellent corrosion protection properties
- High gloss
- Excellent chemical resistance

COLOR AND GLOSS LEVEL

- Gloss (80-95 gloss w/ 60° meter)

Note:

- Epoxy coatings will typically chalk and fade when used in exterior applications. This product is specifically designed to maintain its dark black appearance when exposed to exterior weathering.

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Volume solids	98 ± 2%
VOC (Supplied)	EPA Method 24: 0.3 lb/US gal (39.0 g/l)
Temperature resistance (Continuous)	To 200°F (93°C)
Temperature resistance (Intermittent)	To 350°F (177°C)
Recommended dry film thickness	4.0 - 8.0 mils (100 - 200 µm) depending on system
Theoretical spreading rate	314 ft^2/US gal for 5.0 mils (7.8 m^2/l for 125 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

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

AMERCOAT 1202

Steel

- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-6 cleanliness or higher. Achieve a surface profile of 1.5 – 4.0 mils (38 – 100 µm)
- SSPC SP WJ-2(L) is also acceptable over a previous blasted surface
- For maintenance and repair in atmospheric service, the product can be applied over surfaces prepared in accordance with SSPC SP-2 or SSPC SP-3 (hand and power tool cleaning).

Non-ferrous metals and stainless steel

- Abrasive blast in accordance with SSPC SP-16 guidelines to achieve a uniform and dense 1.5-4.0 mil anchor profile. Size and hardness of abrasive should be adjusted as necessary based on the hardness of the substrate

Aged coatings and repairs

- Ensure the coating system is sound and well adhered
- Do not apply over thermoplastic coatings or coatings that exhibit poor solvent resistance
- A test patch is recommended to determine compatibility and adhesion
- Sweep blast or otherwise thoroughly abrade the existing coating in accordance with SSPC SP-7
- Alternately, PREP 88 may be used to prepare some existing coatings. Please refer to PREP 88 data sheet for details
- Feather the edges of tightly adhered, in-tact coatings at the perimeter of repair areas
- Power tool clean the existing steel in accordance with SSPC SP-3 (atmospheric service) or SSPC SP-11 (immersion service)

Substrate temperature and application conditions

- Surface temperature during application should be between 50°F (10°C) and 122°F (50°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 122°F (50°C)
- Relative humidity during application should be above 10% and below 90%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 50:50 (1:1)

- Jiffy mixer, Ensure feed tanks and drums remain thoroughly mixed at low speed to ensure homogenization

Application

- Area should be sheltered from airborne particulates and pollutants
- Avoid combustion gases or other sources of carbon dioxide that may promote amine blush and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

AMERCOAT 1202

Material temperature

- Material temperature during application should be between 110°F (43°C) and 120°F (49°C)

Pot life

40 minutes at 77°F (25°C)

Note:

- See ADDITIONAL DATA – Pot life

Airless spray

- Airless plural component, heated spray equipment

ADDITIONAL DATA

Curing time for DFT up to 8.0 mils (200 µm)		
Substrate temperature	**Dry to touch**	**Dry to handle**
77°F (25°C)	2.45 hours	3.45 hours
100°F (38°C)	1.5 hours	2 hours

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
77°F (25°C)	40 minutes
100°F (38°C)	15 minutes

SAFETY PRECAUTIONS

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

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

- Information sheet | Explanation of product data sheets

AMERCOAT 1202

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AVAILABILITY OF PACKAGING

Product	Color
ATX4534 DTM Epoxy Black	Black Base
ATX4534 DTM Epoxy Hardener	Hardener