

AMERCOAT® 138 G

DESCRIPTION

Heavy duty non-skid epoxy coating

PRINCIPAL CHARACTERISTICS

- Tough, abrasion resistant epoxy coating containing hard non-skid grit
- Non-skid grit pre-dispersed in epoxy component
- Qualified to Mil-PRF-24667, Types I and 2

COLOR AND GLOSS LEVEL

- Dark gray, black
- Low sheen

Note: Epoxy coatings will characteristically chalk and fade upon exposure to sunlight

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Mass density	12.7 lb/US gal (1.5 kg/l)
Volume solids	82 ± 2%
VOC (Supplied)	max. 1.4 lb/US gal (approx. 168 g/l)
Recommended dry film thickness	See spreading rate tables
Theoretical spreading rate	30 ft ² /US gal for 44.0 mils (0.7 m ² /l for 1100 µm)
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 12 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

- SSPC SP-10, SP-11, or SP-12 WJ-2(L), then prime with suitable primer. A minimum anchor profile of 2.0 mils (50 µm) is required. Optimum is 3.0 – 4.5 mils (75 – 114 µm). See specific primer for further details. For Mil-PRF-24667 qualified applications, use AMERCOAT 137 as the primer



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Concrete

- Prepare in accordance with SSPC SP-13 guidelines
- Remove all surface contaminants such as oil, grease, and embedded chemicals
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance
- Mechanical surface preparation should expose sub-surface voids and provide a surface profile equivalent to 60 grit sandpaper or coarser
- Surface should be free from moisture in accordance with ASTM D4263. Refer to Information Sheet # 1496ACUS for further details regarding moisture measurements
- Slabs on grade should have a maximum moisture content of 3 lbs / 1,000 ft²/24 hours when measured by calcium chloride test. Prime with AMERLOCK SEALER or AMERLOCK 2/400.

Non-ferrous metals and stainless steel

- Check with PPG PMC Technical service prior to specifying on aluminum decks

Substrate temperature and application conditions

- Surface temperature during application should be between 40°F (4°C) and 110°F (43°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 and curing should not exceed 85%

SYSTEM SPECIFICATION

- Primers: AMERCOAT 137, AMERCOAT 235, AMERCOAT 240, AMERLOCK 2/400, AMERLOCK SEALER
- Topcoats: AMERCOAT 450-series polyurethanes, AMERSHIELD, PSX 700, AMERCOAT 229T, PSX One, Use AMERCOAT 229T for zone markings when compliance with Mil-PRF-24667 is required

INSTRUCTIONS FOR USE

Mixing ratio by volume: 5 : 1

- A pneumatic mixer with a 0.75 hp motor with a 0.5 inch(13 mm) or 0.75 inch(19 mm) shaft, dual 4 inch(102 mm) or 5 inch(127 mm) impeller is recommended
- Pre-mix base component at moderate speeds (approximately 300-400 rpms) to homogenize the container. Add hardener to base and agitate with a power mixer for 3-4 minutes until completely dispersed.
- Move the impeller up and down to ensure good off-bottom mixing and draw-down from the top surface
- Do not mix more material than can be used within the pot life

Pot life

2 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life



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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

Material temperature

Material temperature during application should be between 60°F (16°C) and 80°F (27°C)

Air spray

- May be applied with a bottom feed pressure pot

Airless spray

- Not recommended

Brush/roller

- Pour mixed material out in a ribbon
- Use a napless, phenolic core roller with a long handle and roll evenly in one direction
- “Pull” material toward applicator and work in one direction
- Maintain a wet edge
- Apply at approximately 25-35 ft²/gal

Recommended thinner

No thinner should be added

Note: Thinning is not allowed for Mil-spec qualified applications

Cleaning solvent

AMERCOAT 12 CLEANER or AMERCOAT T-10 THINNER

ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
44.0 mils (1100 µm)	30 ft ² /US gal (0.7 m ² /l)

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Overcoating interval based on deck temperatures				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
Amercoat 229T, PSX 700	Minimum	48 hours	16 hours	6 hours
	Maximum	30 days	30 days	14 days
polyurethane topcoat	Minimum	48 hours	16 hours	6 hours
	Maximum	7 days	3 days	48 hours

Notes:

- 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
- Surface must be clean and dry. Any contamination must be identified and removed. Particular attention must be paid to surfaces exposed to sunlight where chalking may be present. In those situations, a further degree of cleaning may be required. PPG Technical Service can advise on suitable cleaning methods. If maximum recoat/topcoat time is exceeded, then roughen surface

Curing time for DFT up to 60.0 mils (1524 µm)		
Substrate temperature	Dry to walk on	Resistant to vehicular service
50°F (10°C)	48 hours	10 days
70°F (21°C)	16 hours	6 days
90°F (32°C)	6 hours	3 days

Note: Drying times are dependent on air and surface temperatures as well as film thickness, ventilation and relative humidity

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	4 hours
70°F (21°C)	2 hours
90°F (32°C)	45 minutes

Product Qualifications

- MII-PRF-24667 C Types 1 and 2

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



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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

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431

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Packaging: Available in 5-gallon monopack kits

Product code	Description
AT138G-2	Dark Gray Base
AT138G-9	Black Base
AT138G-B	Hardener

Note: Black Base (special order only)