

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 20°C (68°F)

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

AMERCOAT® 138 G

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
-

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
-

AMERCOAT® 138 G

Material temperature

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

Pot life

2 hours at 70°F (21°C)

Note:

- See ADDITIONAL DATA – Pot life

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

- THINNER 90-58 (AMERCOAT 12)
- THINNER 91-82 (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)

AMERCOAT® 138 G

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:

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

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

- Mil-PRF-24667 C Types 1 and 2



AMERCOAT® 138 G

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
- For paint and recommended thinners see INFORMATION SHEET 1411 and relevant Material Safety Data Sheets

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

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

Packaging

- 5-gallon monopack kits

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

Product	Color
AT138G-9	Black Base
AT138-B	Hardener
AT138G-2	Dark Gray Base

Note:

- Black Base (special order only)

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.

