

# AMERCOAT® 100 A

## DESCRIPTION

Spray-On Epoxy Surfacer

## PRINCIPAL CHARACTERISTICS

- Solvent-free
- Suitable for heavy H<sub>2</sub>S wastewater environments
- Eliminates troweling, reducing labor costs
- Resists a wide range of acids, alkalies, and solvent
- Suitable for many secondary containment applications
- Reinforced film withstands heavy abrasion and impact

## COLOR AND GLOSS LEVEL

- Dark gray
- Flat

## BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Three
Volume solids	100%
VOC (Supplied)	max. 0.0 lb/US gal (approx. 4 g/l)
Recommended dry film thickness	125.0 - 187.5 mils (3125 - 4763 µm) depending on system
Theoretical spreading rate	13 ft <sup>2</sup> /US gal for 125.0 mils (0.3 m <sup>2</sup> /l for 3125 µm)
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry Powder: at least 24 months when stored cool and dry

### Notes:

- Product is supplied in 53.8 lb kits which yield 3.3 gallons
- Each kit has a theoretical spread rate of 42.9 square feet at 1/8"

# AMERCOAT® 100 A

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Concrete

- 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
- Water jetting and power tool abrading are also acceptable
- Mechanical surface preparation should expose sub-surface voids and provide a surface profile equivalent to a minimum 60 grit sandpaper or coarser up to a surface profile equivalent to an ICRA CSP 9. Ensure the surface is dust free
- Test for moisture by conducting a plastic sheet test in accordance with ASTM D4263
- Fill voids as necessary with AMERCOAT 114 A epoxy filler

### Substrate temperature

- Surface temperature during application should be between 50°F (10°C) and 100°F (38°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 90°F (32°C)
- Relative humidity during application should be between 0% and 85%

Note: Ensure the area is well ventilated with clean air. Ensure combustion gases are not present during curing of the product

## SYSTEM SPECIFICATION

- Primer: AMERLOCK Sealer
- Filler: AMERCOAT 114 A

## INSTRUCTIONS FOR USE

- Mix a unit of base and hardener for lubricating the material line (do not add powder)
- Pump lubricant material through the pump and delivery hose, collecting the material in a 5-gallon can. Continue pumping until all lubricant (base and hardener) is removed from the material, follow lubricant material with a mixed unit of resin, cure, and powder. Begin application of the 3-component material.
- Spray in even, parallel passes. Overlap each pass 50% to avoid areas of low-film thickness
- Back roll with a short-nap, solvent-resistant roller wetted with a small amount of AMERCOAT 65 thinner to level the film. Alternately, wet a flat hand trowel with a slight amount of AMERCOAT 65 thinner to smooth and level the mortar.
- At surface temperatures of 80°F (27°C) or higher, two coats of AMERCOAT 100A may be required to achieve a 3/16" film on vertical surfaces. Make the first application at 1/8". Allow to cure overnight. Make a second application at 1/16" within 24 hours of the initial application.
- Immediately after use, clean all application tools and spray equipment with AMERCOAT 104 cleaner followed by a clean water. Clean pump by pouring a unit of AMERCOAT 104 cleaner following AMERCOAT 100A and run until AMERCOAT 100A is removed from the material line. Pour a second unit of AMERCOAT 104 Cleaner into the hopper and continue circulating to remove any remaining 100A. Follow with a clean water rinse. For thorough cleaning of the material line, disassemble and clean by attaching a rag to a piece of wire and pulling the rag through the line several times to remove any deposits from the side walls. Flush with water. A spare material line is recommended so one line can be thoroughly cleaned while the other is in use. It also allows for close inspection of the lines for wear.



# AMERCOAT® 100 A

---

## **Mix as packaged**

- Mix full units as packaged only. Up to 20% of the powder can be left out for a less viscous mixture if desired. Mix with a heavy-duty JIFFY mixer with a ½" shaft and suitable power drill
  - Pre-mix base component with a pneumatic air mixer at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1–2 minutes until completely dispersed. Slowly add powder under moderate agitation in a vortex
  - Ensure powder component is fully incorporated with good off-bottom mixing. Do not over-mix. Be prepared to apply the product quickly, due to a short pot life for this product. No induction time is required
- 

## **Pot life**

30 minutes at 70°F (21°C)

Note: See ADDITIONAL DATA – 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
- Provide shelter to prevent wind from affecting spray patterns
- Bulletin #1489 for further information on prevention, detection, and removal of amine blush

## **Material temperature**

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

---

## **Airless spray**

- Product may be applied with one of the following equipment configurations:
  - [1] Swinger pump by AirTech with 1" fluid hose to pump outlet affixed with a pole gun with external atomizing air. 1/2" air hose to air manifold below the air regulator.
  - [2] Quikspray® Carrousel pump equipped with a hopper feed, spray gun and material lines can also be used
  - [3] Bottom fed pressure pot outfitted with a pole gun such as a Binks 10-gallon pressure pot, Model No. 83-5362, with follower plate and air control 83-104, fluid hose 71-3362-1 inch, pole gun model 125
  - [4] Super Texan® hopper feed grout/mortar sprayer with a pole gun can be used. Select a variable speed air motor
  - [5] For small or repair areas, use a hand held hopper gun such as a Quikspray Model 60AT. The product can also be trowel applied for small areas
  - Hoses should normally be kept as short as possible
- 

## **Cleaning solvent**

AMERCOAT 104 Water based cleaner

---



**PPG Protective &  
Marine Coatings**

Bringing innovation to the surface.™

# AMERCOAT® 100 A

## ADDITIONAL DATA

Overcoating interval for DFT up to 187.5 mils (4763 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	24 hours	10 hours	6 hours
	Maximum	10 days	7 days	3 days

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 187.5 mils (4763 µm)		
Substrate temperature	Dry hard	Dry to service
50°F (10°C)	24 hours	8 days
70°F (21°C)	10 hours	3 days
90°F (32°C)	6 hours	48 hours

Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	80 minutes
70°F (21°C)	30 minutes
90°F (32°C)	20 minutes

## 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.

# AMERCOAT® 100 A

## 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

## 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.ppgmc.com](http://www.ppgmc.com). The English text of this sheet shall prevail over any translation thereof.

### 53.8 lb unit

Product code	Description
NU100-2	Gray Base
NU100-B	Hardener
NU100-P	Powder

Note: Product is supplied in 53.8 lb kits which yield 3.3 gallons

The PPG Logo, Bringing innovation to the surface., and all other trademarks herein are property of the PPG group of companies.