DURETHANE™ DTM | 95-3300 SERIES

DESCRIPTION

Two-component, DTM urethane mastic

PRINCIPAL CHARACTERISTICS

- Direct-to-metal application, including tightly adhering rust
- Low VOC
- Excellent color and gloss retention
- Easy to apply by spray, roller and brush
- Infinite color capability
- Meets SSPC Paint 36 Level 3
- Contains no organic HAPs

COLOR AND GLOSS LEVEL

- Standard Color Offering, Safety Colors, Custom Colors
- Gloss

BASIC DATA AT 68°F (20°C)

Data for mixed product	
Number of components	Two
Volume solids	65 ± 2%
VOC (Supplied)	max. 2.0 lb/US gal (approx. 241 g/l)
Recommended dry film thickness	3.0 - 5.0 mils (75 - 125 µm) depending on system
Theoretical spreading rate	348 ft^2/US gal for 3.0 mils (8.7 m^2/l for 75 µm)
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Notes:
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
- Certain colors may be offered for specifications which require 4.0 – 6.0 mils (100 – 150 µm) dry film tickness. Please contact your PPG representative for details

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specifc 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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Steel
- Remove weld spatter, protrusions, and laminations in 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 or SP-10 cleanliness for optimum performance. Achieve a surface profile of 1.5 – 3.0 mils (38 – 75 µm)
- 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).
- Apply an epoxy or zinc rich primer for agressive service environments

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
- Use a suitable epoxy to prime the concrete. Refer to primer data sheet for further surface preparation details

Non-ferrous metals
- Lightly abrasive blast or mechanically abrade in accordance with SSPC SP-16 to achieve a uniform and dense 1.5 – 4.0 mil anchor profile
- Apply an epoxy primer for aggressive environments

Stainless steel
- Abrasive blast with a hard angular abrasive to achieve a uniform and dense anchor profile of 1.5 – 3.0 mils (38 – 75 µm)
- Apply an epoxy primer for aggressive environments

Aged coatings and repairs
- Ensure the coating system is sound and well adhered
- Do not apply over acrylic 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, intact coatings at the perimeter of repair areas
- Power tool clean the existing steel in accordance with SSPC SP-3 (atmospheric service)

Substrate temperature and application conditions
- Surface temperature during application should be between 20°F (-7°C) and 130°F (54°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 20°F (-7°C) and 100°F (38°C)
- Relative humidity during application and curing should not exceed 85%

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Warning

Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. EXPOSURE TO LEAD DUST OR FUMES MAY CAUSE ADVERSE HEALTH EFFECTS, ESPECIALLY IN CHILDREN OR PREGNANT WOMEN. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted and approved (e.g., NIOSHapproved) respirator and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-424-LEAD or the regional Health Canada office

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 83:17

- Pre-mix pigmented components 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

Pot life

3 hours at 70°F (21°C)

Note: See ADDITIONAL DATA – Pot life

Application

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns
- Protect from moisture until dry through time is reached

Material temperature

Material temperature during application should be between 40°F (4°C) and 90°F (32°C)

Air spray

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

Volume of thinner

0 - 10%

Nozzle orifice

Approx. 0.070 in (1.8 mm)

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Airless spray
- 28:1 pump or larger

Volume of thinner
0 - 10%

Nozzle orifice
0.013 – 0.015 in (approx. 0.33 – 0.38 mm)

Nozzle pressure
10.3 - 17.2 MPa (approx. 104 - 173 bar; 1500 - 2500 p.s.i.)

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
- AMERCOAT 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application

Recommended thinner
PPG THINNER 21-85 (97-739) (to maintain less than 250 g/L), PPG THINNER 50-48 (97-735) (normal brush, roll, or spray), PPG THINNER 91-30 (97-730) or PPG THINNER 21-06 (97-727) (spray), PPG THINNER 91-31 (97-734) (brush and roll); use PPG THINNER 50-63 (97-736) with PPG THINNER 50-48 (97-735) for increased conductivity

Volume of thinner
0 – 5%

Cleaning solvent
PPG THINNER 90-58 (AMERCOAT 12 CLEANER)

ADDITIONAL DATA

Overcoating interval for DFT up to 3.0 mils (75 µm)				
Overcoating with...	**Interval**	**50°F (10°C)**	**70°F (21°C)**	**90°F (32°C)**
itself	Minimum	18 hours	9 hours	4 hours
	Maximum	Unlimited	Unlimited	Unlimited

Overcoating interval with 97-722 accelerator for DFT up to 3.0 mils (75 µm)							
Overcoating with...	**Interval**	**20°F (-7°C)**	**30°F (-1°C)**	**40°F (4°C)**	**50°F (10°C)**	**70°F (21°C)**	**90°F (32°C)**
itself	Minimum	12 hours	8 hours	4 hours	2 hours	1 hour	less than 1 hour
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

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Curing time for DFT up to 3.0 mils (75 µm)		
Substrate temperature	**Dry to touch**	**Dry to handle**
50°F (10°C)	3 hours	18 hours
70°F (21°C)	2 hours	9 hours
90°F (32°C)	1 hour	4 hours

Curing time with 97-722 accelerator for DFT up to 3.0 mils (75 µm)		
Substrate temperature	**Dry to touch**	**Dry to handle**
40°F (4°C)	1 hour	4 hours
50°F (10°C)	less than 1 hour	2 hours
70°F (21°C)	less than 1 hour	1 hour
90°F (32°C)	15 minutes	less than 1 hour

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
50°F (10°C)	5 hours
70°F (21°C)	3 hours
90°F (32°C)	1.5 hours

Pot life (at application viscosity): with 97-722 accelerator	
Mixed product temperature	**Pot life**
50°F (10°C)	1.5 hours
70°F (21°C)	1 hour
90°F (32°C)	30 minutes

Product Qualifications

- SSPC Paint 36 Level 3 Performance

DISCLAIMER

- For industrial or professional use only

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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Danger

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water-filled metal container. Refer to www.pittsburghpaints.com, Spontaneous Combustion Advisory for additional information

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

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

Packaging

1-gallon and 5-gallon kits

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Product codes	Description
95-3300	Neutral base*
95-3301	White base*
95-3302	Yellow base*
95-3303	Red base*
95-3314	Black**
95-339	Hardener

Notes:

- * Tintable with PERFORMACOLOR 4257-line tints
- ** Do not tint