



## PRODUCT SPECIFICATIONS

**\*All products are to be PPG, with the exception of the concrete joint sealant which is made by Tremco**

### **Exterior Finishes**

Job Scope: Wood Floor, to receive one coat of Clear Dura-Shell™ WB Urethane Coating.  
Steel Supports: All Steel Supports and railings, receive one coat of, two-part Durethane DTM Urethane. Topcoat all steel supports, receive one coat 2 component Durethane DTM Urethane. Match existing sheen and color. Paint colors to be approved by owner.

1. Area Steel Supports
  - a. Surface Preparation- Cleaning: Clean and de-gloss.
  - b. Exterior Paint Systems- Finish Coat: EpoxyAmerlock 2 (AK2-3)
2. Area Steel Supports and Railings
  - a. Surface Preparation-Cleaning: Clean and de-gloss, SSPC-SP 3 Power Tool Cleaning
  - b. Exterior Paint Systems-
    - i. Prime Coat: Rusty or bare steel, 2 component Durethane DTM Urethane (95-3301)
    - ii. Finish Coat: all steel, 2 component Durethane DTM Urethane (95-3301)
3. Area Wood floor
  - a. Surface Preparation- Cleaning: clean and de-gloss.
  - b. Exterior Paint Systems- Finish Coat: Clear Dura-Shell™ WB Urethane Coating
4. Concrete Joint Sealant
  - a. Product specification: Vulkem 45 SSL Buff Color
  - b. Surface Preparation-Remove all old caulk, replace all backer rod, apply Vulkem 45 SSL

# 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	
<b>Number of components</b>	Two
<b>Volume solids</b>	65 ± 2%
<b>VOE (Supplied)</b>	max. 2.0 lb/US gal (approx. 241 g/l)
<b>Recommended dry film thickness</b>	3.0 - 5.0 mils (75 - 125 µm) depending on system
<b>Theoretical spreading rate</b>	348 ft <sup>2</sup> /US gal for 3.0 mils (8.7 m <sup>2</sup> /l for 75 µm)
<b>Shelf life</b>	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 thickness. 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 specific 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.



# DURETHANE™ DTM I 95-33 0 0 SERIES

## 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 clean liness 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 aggressive service environments

---

## Concrete

- Remove all surface contaminants such as oil, grease, and embedded chemicals
- Abrade the surface per ASTM 04259 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 tile edges of tightly adhered, intact coatings at the perimeter of repair areas
- Power tool clean tile 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%



# DURETHANE™ DTM 195-3300 SERIES

## **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., NIOSH approved) 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)

---



# DURETHANE™ DTM 195 -33 0 0 SERIES

**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 (AMERCOAT12 CLEANER)

**ADDITIONAL DATA**

Overcoating Interval for DFT upto 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 upto 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



# DURETHANE™ DTM 19 5-3300 SERIES

Curing time for OFT upto 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)	1hour	4 hours

Curing timewith 97-722 accelerator for OFT upto 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	1hour
90°F(32°C)	15 minutes	less than 1 hour

Pot life(at application viscosity)	
Mixed producttemperature	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 temp erature	Potlife
50°F(10°C)	1.5 hours
70°F(21°C)	1hour
90°F(32°C)	30 minutes

**Product Qualifications**

- SSPCPaint 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



# DURETHANE™ DTM I 95-3300 SERIES

### **Danger**

Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately remove to a well-ventilated area, place in a closed water-filled metal container. Refer to www.pittsbu1ghpa1nts.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 (1) the quality of the product conform to PPG's specifications and (2) that the product shall be delivered free of the right of 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, 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 (6) days of Buyer's discovery of the claim or defect, but in no event later than the expiration of the applicable statute of limitations of the product, 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 on 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 the 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 for any injury or damage resulting from such use of 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.

### **AVAILABILITY**

#### **Packaging**

1-gallon and 5-gallon kits



# DURETHANE™ DTM 195-3300 SERIES

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 4 257-line tints
- " Do not tint

The PPG logo, nr1dall other PPG marks are property of the PPG group or companies. All other third-party marks are property of their respective owners.







Dura-Shell™ WB

**PRODUCT DESCRIPTION**

**SEAL-KRETE(!) Dura-Shell™ WB** is a premium clear water-based two-part high performance urethane coating which utilizes aliphatic urethane polymer technology. It provides excellent film hardness, chemical, abrasion and UV resistance with less than 50 grams/liter VOC. Dura-Shell can be applied directly to many surfaces without the need of a primer, i.e., concrete, wood, aluminum and galvanized metal. The coating is widely used to provide a high gloss or matte finish to concrete floors, food & beverage and pharmaceutical facilities. It is recommended on floors and walls in equipment and clean rooms, as well as amusement parks, refineries, power industry, storage tank exteriors and wastewater facilities.

**FEATURES AND BENEFITS:**

- High gloss or matte finish
- UV resistant, non-yellowing
- Great scratch & abrasion resistance
- Excellent chemical resistance; recommended as anti-graffiti top coat
- Recommended clear top coat when broadcasting decorative flakes
- Easy to use 50 VOC, low odor formula
- Excellent hot tire pick-up resistance
- Recommended for vertical or horizontal applications
- Available in Clear 3.78 L (1 gal.) Kit, Item #226801-Gloss or #224801-Matte

**TYPICAL USES:**

- Food processing areas
- Bottling areas
- Sanitize/wash areas
- Cook/chill areas
- Refineries, chemical processing facilities
- Storage tank/pipeline exteriors
- Amusement parks
- Clean rooms
- Kitchens
- Pharmaceutical plants
- Prison floors
- Warehouse floors

**Important:** Read all directions thoroughly. Recommended: Wear gloves, safety glasses and protective clothing or apron.

**SURFACE PREP\***

**CONCRETE:** New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, coatings, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 1.35 kg per 92.9 m<sup>2</sup> (3 lb. per 1000 sq. ft.) over a 24 hour period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is abrasive blasting or scarification using diamond beads to achieve a final 80-120 grit finish, reference Profile SP-2ICRI Technical Guideline No. 03732. If a chemical etch is preferred, use SEAL-KRETE Clean-N-Etch and follow all label instructions.

**WOOD:** Sand new wood to remove any surface contaminant and to lower grain. Previously finished wood should be sanded to provide good adhesion. Test patches are recommended.

**ANTI-GRAFFITI SYSTEM:** Follow appropriate surface preparation noted above. Apply two coats of Dura-Shell Clear using a short nap premium 5-1 O mm (1/4"-3/8") lint free roller. Graffiti "spray paint" can be removed by scrubbing with a rag saturated with xylene.

**ALUMINUM:** Remove all oil, grease or soap film with an alkaline cleaner such as TSP (tri-sodium phosphate).

**GALVANIZED METAL:** Remove all oil, grease or soap film with an alkaline cleaner such as TSP (tri-sodium phosphate).

**APPLICATION**

**APPLICATION CONDITIONS:** Temperature of the air, substrate and material should be between 10°C and 35°C (50°F and 95°F). Relative humidity should not be above 80%. Two coats are recommended with a minimum of 6 hours and a maximum of 24 hours dry time between coats.

**MIXING INSTRUCTIONS:** Mix Part "A" by using a low speed drill with mixing attachment for 2 minutes. Add Part "B". Mix an additional 2 minutes. Mix only the amount of material that can be applied during the pot life (approximately 1 hour, depending on air/surface temperatures.) Do not aerate the mix. Apply immediately.

**APPLICATION:** Apply using a 10 mm (3/8") short nap roller for horizontal surfaces; 25 mm (1") nap for vertical surfaces. Apply light coats no more than 24 hours between coats.

Refer to Application Guide or visit [hp.seal-krete.com](http://hp.seal-krete.com) for detailed application instructions.

**CLEAN-UP, STORAGE AND DISPOSAL**

**CLEAN-UP:** Clean tools and application equipment immediately after use with water first and wipe; then use an active solvent like xylene. Clean spills and drips while still wet with xylene. Dispose of container and contents in accordance with local laws and regulations.

**HANDLING:** Do not breathe mixed product vapors or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapors or dusts.

**KEEP FROM FREEZING:** Store in a cool, well ventilated area above freezing.

**DISPOSAL:** Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations.

**LIMITATIONS**

This product is not designed for immersion or any use where moisture can reach the underside of the coating. Do not apply to floors that have been treated with curing compounds (unless completely removed) or substrates that are less than 30 days old. Do not use on vinyl, asphalt, glazed tile, paving brick, quarry tile, Mexican tile or similar materials. Do not apply if surface temperature is below 10°C (50°F).

**MAINTENANCE AND CARE**

SEAL-KRETE Industrial Flooring Systems are monolithic, making them easier to clean because dirt and contaminants remain on the surface. For maintenance/care recommendations, refer to application guide or visit [hp.seal-krete.com](http://hp.seal-krete.com).

**CAUTION: KEEP OUT OF REACH OF CHILDREN.** Avoid contact with skin. If splashed in the eyes remove contact lenses if worn. Flush eyes with clean water. If irritation occurs get medical attention. If swallowed, DO NOT induce vomiting. Take immediately to hospital or physician. For more information refer to Material Safety Data Sheet.

\*Sanding or removing paint containing lead may be hazardous. For information contact the National Lead Information Center at 1-800-424-LEAD or [www.epa.gov/lead](http://www.epa.gov/lead).



**MATERIAL PROPERTIES AT 23.9°C (75°F) MATTE**

Mixed VOE Content	<50g/L*	<50g/L*
Mix Ratio (A:B; by volume)	3:1	3:1
Tack Free Time	6 hours	6 hours
Recoat Time (min/max)	6 hrs / 24 hrs.	6 hrs. / 24 hrs.
Light Foot Traffic	24 hours	24 hours
Vehicular Traffic	5 days	5 days
ASTM E-96 - Water Vapor Transmission	1.39 perms	1.39 perms
ASTM C-722 - Monolithic Surfacing	Pass	Pass
ASTM D-4366 - Konig Hardness	110	111
ASTM D-2794 - Impact Resistance	Pass;	Pass;
	> 406 cm/.45 kg	> 406 cm/.45 kg
ASTM D-4060 - Abrasion Resistance (CS-17)	25 mg loss	4 mg loss
ASTM D-638 - Tensile Strength	18.62-20 MPa (2700-2900psi)	18.72- 20.1MPa (2715- 2912 psi)
ASTM D-4541-Adhesion Strength	3.17MPa (460 psi)	3.31MPa (480 psi)

**GLOSS**

**CHEMICAL RESISTANCE**

Acetone	Y	Motor Oil	Y
Animal Urine (fox)	Y	Mustard (Raye's®)	Y*
Antifreeze (Prestone®)	Y	Natural Grain Spirits 190 Proof	Y
Bleach (Clorox®)	Y	Orange Juice	Y
Brake Fluid	N	Phosphoric Acid 10%	Y
Calcium Chloride	Y	Skydrol 5	Y
Cooking Oil (Peanut, Olive, Canola)	Y	Sodium Hydroxide 50% (Caustic Soda)	Y
De-Icing Salts	Y	Sulfuric Acid 10%	Y
Detergents	Y	Sulfuric Acid 37% (Battery Acid)	Y
Gasoline	Y	Toluene	Y
Hydraulic Fluids (Tellus 46)	Y	Trisodium Phosphate (TSP)	Y
Hydrochloric Acid 10%	Y	Water	Y
Hydrochloric Acid 37%	Y	Windshield Wiper Fluid	Y
Isopropyl Alcohol	Y	Xylene	Y
MEK	Y		

\*EPAMethod 24 - Floor Category

Key: Y= RESISTANT N= NOT RECOMMENDED

\*Will stain unless immediately removed

**APPLICATION AND COVERAGE GUIDE**

Steps	Coverage				
	Roller Size		m <sup>2</sup> / L (sq. ft. / Gal)	Mils (Microns)	
	Vertical	Horizontal		Wet	Dry
Clear Coat 1	25 mm (1") woven nap	10 mm (3/8") woven nap	6.14- 9.83 (250- 400)	4.0 (100)	2.4 (60)
Clear Coat 2	25mm(1") woven nap	10 mm (3/8") woven nap	6.14- 9.83 (250- 400)	4.0 (100)	2.4 (60)

Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, texture and thickness will determine actual material requirements.

**WARRANTY:** Seller makes no warranty, either expressed or implied, concerning this product, its quality, performance, merchantability, or fitness for a particular purpose other than expressly designated warranty of the product label. Buyer assumes all risk of use and handling of this material.

**TECHNICAL SUPPORT:** For more information on surface prep or application guidelines or to obtain a Material Safety Data Sheet, call 1-800-323-7357, M-F (8:00am-5:00 pm EST) or visit our website at [hp.seal-krete.com](http://hp.seal-krete.com).

**Convenience Products**

306 Gandy Rd., Auburndale, FL 33823 USA  
Questions or comments? e-mail: [tech@seal-krete.com](mailto:tech@seal-krete.com) or call 1-800-323-7357

Country of Origin: U.S.A.

**HOW TO TREAT CONCRETE™**

[hp.seal-krete.com](http://hp.seal-krete.com)

