

# MEGASEAL™ TF

(also branded as AMERLOCK® 2 VOC)

## DESCRIPTION

Thin film epoxy floor coating

## PRINCIPAL CHARACTERISTICS

- Fast drying properties
- VOC compliant for <100 g/L specifications
- Compatible with prepared damp surfaces

## COLOR AND GLOSS LEVEL

- Standard primer colors and custom colors
- Semi-gloss

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
Volume solids	83 ± 2%
VOC (Supplied)	max. 0.7 lb/US gal (approx. 84 g/l)
Temperature resistance (Continuous)	To 200°F (93°C)
Temperature resistance (Intermittent)	To 250°F (121°C)
Recommended dry film thickness	4.0 - 8.0 mils (100 - 200 µm) depending on system
Theoretical spreading rate	333 ft²/US gal for 4.0 mils (8.2 m²/l for 100 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
- Color will drift at elevated temperatures
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is, in general, proportional to the degree of surface preparation.



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## **Concrete**

- Prepare in accordance with SSPC SP-13 guidelines
- Abrade surface per ASTM D4259 to remove all efflorescence and laitance, to expose subsurface voids, and to provide a surface roughness equivalent to 60-grit sandpaper or coarser.
- Test for moisture by conducting a plastic sheet test in accordance with ASTM D4263
- Fill voids as necessary with MegaSeal CF epoxy filler
- For slabs on grade, test for moisture in accordance with ASTM F1869 (calcium chloride test)
- The maximum allowable moisture transmission is 3 lbs / 1,000 ft<sup>2</sup>/24 hours. Refer to Information Sheet 1496ACUS for further details regarding moisture measurements

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## **Aged coatings and repairs**

- All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue
- Abrade surface, or clean with PREP 88. This product is compatible over most types of properly applied and tightly adhering coatings, however, a test patch is recommended to confirm compatibility

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## **Repair**

- 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

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## **Substrate temperature and application conditions**

- Surface temperature should be between 20°F (-7°C) and 122°F (50°C)
- The surface temperature must be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 20°F (-7°C) and 122°F (50°C)
- Relative humidity during application should be above 0% and below 90%

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## **SYSTEM SPECIFICATION**

- Primers: Direct to substrate
- Topcoats: MegaSeal TF, MegaSeal HPU, PSX 700

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## **INSTRUCTIONS FOR USE**

### **Mixing ratio by volume: base to hardener 50:50 (1:1)**

- 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

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### **Induction time**

15 minutes



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**Pot life**

1 hour 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 and ambering of light colors
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns
- PPG 97-739 and tert-butyl acetate are VOC exempt thinners which can be used without limit to maintain < 100 g/L.

**Material temperature**

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

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**Air spray**

- Use standard conventional equipment

**Recommended thinner**

THINNER 21-06 (AMERCOAT 65) or THINNER 21-25 (AMERCOAT 101) (to reduce dry spray))

**Volume of thinner**

0 - 20%

**Nozzle orifice**

Approx. 0.070 in (1.8 mm)

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**Airless spray**

- 45:1 pump or larger
- Can be applied with plural component equipment

**Recommended thinner**

THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

**Volume of thinner**

0 - 5%

**Nozzle orifice**

0.017 - 0.021 in (approx. 0.43 - 0.53 mm)

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## Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 3/8" nap roller. Ensure brush/roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build

## Recommended thinner

AMERCOAT 65 (xylene), AMERCOAT 101 (recommended for > 90°F (32°C))

## Volume of thinner

Up to 5% THINNER can be added if desired

## Cleaning solvent

AMERCOAT 12 CLEANER or AMERCOAT 65 THINNER (xylene)

## ADDITIONAL DATA

Overcoating interval for DFT up to 5.0 mils (125 µm)					
Overcoating with...	Interval	32°F (0°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	24 hours	6 hours	3 hours	1.5 hours
	Maximum	3 months	2 months	30 days	14 days
urethane and PSX	Minimum	24 hours	6 hours	3 hours	1.5 hours
	Maximum	30 days	14 days	7 days	4 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. A detergent wash with PREP 88 or equivalent is required prior to application of topcoats after 30 days of exposure. However, 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 5.0 mils (125 µm )		
Substrate temperature	Dry to touch	Dry to handle
32°F (0°C)	24 hours	38 hours
50°F (10°C)	8 hours	13 hours
70°F (21°C)	2 hours	4.5 hours
90°F (32°C)	1 hour	2 hours



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Pot life (at application viscosity)	
Mixed product temperature	Pot life
50°F (10°C)	2 hours
70°F (21°C)	1 hour
90°F (32°C)	30 minutes - 45 minutes

Note: AMERCOAT 8 thinner can be used to extend pot life approximately 10 - 20% in hot weather conditions.

## Product Qualifications

- Compliant with USDA Incidental Food Contact Requirements
- LEEDs compliant for Anti-corrosive Paint category

## 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

## 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

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|--|-------------------|------|
| • 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.



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Product code	Description
99-1001	White Base
99-1010	Gray Base
99-1016	Dark Gray Base
99-1060	Safety Yellow Base
99-1064	Safety Red Base
99-1091	Neutral Tint Base *
99-1093	Light Tint Base *
99-1095	Deep Tint Base *
99-1033	Hardener
99-1044	Fast Dry Hardener

Note: \* Tintable using UCD V-Line colorants only

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