

AMERCOAT® 71 TC

DESCRIPTION

Two-component, polyamide-cured epoxy tiecoat

PRINCIPAL CHARACTERISTICS

- Forms durable coating systems with a wide range of topcoats for immersion and non-immersion services
- Excellent adhesion to steel, shop primer, galvanized steel and non-ferrous metals
- Suitable as tiecoat over DIMETCOTE

COLOR AND GLOSS LEVEL

- Offwhite
- Flat

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.7 lb/US gal)
Volume solids	51 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 381.0 g/kg UK PG 6/23(92) Appendix 3: max. 435.0 g/l (approx. 3.6 lb/US gal)
Recommended dry film thickness	50 - 100 µm (2.0 - 4.0 mils)
Theoretical spreading rate	10.2 m ² /l for 50 µm (409 ft ² /US gal for 2.0 mils) 5.1 m ² /l for 100 µm (205 ft ² /US gal for 4.0 mils)
Dry to touch	2 hours
Overcoating Interval	Minimum: 4 hours
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

AMERCOAT® 71 TC

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO Sa 2½ or SSPC-SP-10, blasting profile 25 – 50 µm (1.0 – 2.0 mils)
- Previous suitable coat must be dry and free from any contamination
- Refer to application instructions for the particular DIMETCOTE for any other special topcoating requirements

Note: Apply primer as soon as possible after surface preparation to prevent any contamination.

Galvanized steel and aluminum

- Galvanized steel must be free from grease, salts and any contamination
- If galvanizing has been exposed to exterior weathering for 6 months or more, remove zinc corrosion products by mechanical means (like power sander or a light blast).
- Aluminum must be dry and free from any contamination
- A light blast with fine abrasive is required

Note: Apply primer as soon as possible after surface preparation to prevent any contamination.

Substrate temperature and application conditions

- Surface temperature during application should be between 5°C (41°F) and 60°C (140°F)
 - Surface temperature during application should be at least 3°C (5°F) above dew point
 - Ambient temperature during application and curing should be between 5°C (41°F) and 50°C (122°F)
 - Relative humidity during application should not exceed 85%
-

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 80:20 (4:1)

- The temperature of the mixed base and hardener should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
 - Add hardener to base and continue stirring until homogeneous
 - The thinner should be added after mixing the two components
 - Adding too much thinner results in reduced sag resistance
-

Induction time

None

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

AMERCOAT® 71 TC

Air spray

Recommended thinner

THINNER 91-83

Volume of thinner

0 - 10%, depending on required thickness and application conditions

Nozzle orifice

1.8 – 2.2 mm (approx. 0.070 – 0.087 in)

Nozzle pressure

0.40 - 0.60 MPa (approx. 4 - 6 bar; 58 - 87 p.s.i.)

Airless spray

Recommended thinner

THINNER 91-83

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.38 – 0.53 mm (0.015 – 0.021 in)

Nozzle pressure

20.7 MPa (approx. 207 bar; 3003 p.s.i.)

Brush/roller

Recommended thinner

THINNER 91-83

Volume of thinner

0 – 10%

Note: Typically 40-50 microns (1.6-2.0 mils) dry film thickness can be applied in one coat

Cleaning solvent

THINNER 90-58

Note: All application equipment must be cleaned immediately after use

AMERCOAT® 71 TC

ADDITIONAL DATA

Overcoating interval for DFT up to 50 µm (2.0 mils)					
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
various two-pack epoxy and polyurethane coatings	Minimum	8 hours	4 hours	2 hours	1 hour
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note: This product has an unlimited maximum overcoating interval provided the surface is free from chalking and other contamination, in which case it should be cleaned and roughened up to ensure good adhesion of subsequent coat

Curing time for DFT up to 50 µm (2.0 mils)		
Substrate temperature	Dry to touch	Dry to handle
10°C (50°F)	4 hours	8 hours
20°C (68°F)	2 hours	4 hours
30°C (86°F)	1 hour	2 hours
40°C (104°F)	30 minutes	1 hour

Notes:

- Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions
- Times are proportionally shorter at higher temperature and longer at lower temperatures

Pot life (at application viscosity)	
Mixed product temperature	Pot life
20°C (68°F)	4 hours
30°C (86°F)	3 hours
35°C (95°F)	2 hours

Note: The pot life and drying/curing times are dependent on site conditions: volume of material mixed, ambient and substrate temperatures, weather and ventilation

SAFETY PRECAUTIONS

- Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods
- Adequate ventilation to remove solvent must be maintained during application and curing

AMERCOAT® 71 TC

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.

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. The English text of this sheet shall prevail over any translation thereof.

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



**PPG Protective &
Marine Coatings**

Bringing innovation to the surface.™