

AMERCOAT® 741

DESCRIPTION

One-component, heat-resistant, moisture-curing (ethyl) silicate finish

PRINCIPAL CHARACTERISTICS

- Dry heat resistance up to 400°C (750°F)
- Excellent resistance to a large variety of solvents
- Resists radiation up to 5.0×10^9 rad

COLOR AND GLOSS LEVEL

- White, pearl gray
- Flat

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	1.7 kg/l (14.2 lb/US gal)
Volume solids	62 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 276.0 g/kg UK PG 6/23(92) Appendix 3: max. 480.0 g/l (approx. 4.0 lb/US gal)
Recommended dry film thickness	125 µm (5.0 mils)
Theoretical spreading rate	5.0 m ² /l for 125 µm (199 ft ² /US gal for 5.0 mils)
Dry to touch	1 hour
Full cure after	12 hours
Shelf life	At least 12 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Primed steel or previous coat

- Suitable coating (zinc silicate primer) must be dry, free from any contamination and zinc salts
- Refer to application instructions for the particular DIMETCOTE for any other special topcoating requirements

AMERCOAT® 741

Substrate temperature and application conditions

- Surface temperature during application should be between -18°C (0°F) and 70°C (158°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 -18°C (0°F) and 50°C (122°F)
 - Relative humidity during curing should be above 50%
-

INSTRUCTIONS FOR USE

- Stir thoroughly until homogeneous
 - Agitate continuously during application
-

Air spray

Recommended thinner

THINNER 21-06

Volume of thinner

10 - 20%, depending on required thickness and application conditions

Nozzle orifice

2.0 – 2.5 mm (approx. 0.079 – 0.100 in)

Nozzle pressure

0.3 MPa (approx. 3 Bar; 44 p.s.i.)

Note: A moisture and oil trap in the main air supply is essential

Airless spray

- Standard airless equipment can not be used. The pump Binks Alpha is the only acceptable airless pump having a 60:1 ratio and a 0.030" tip or higher

Recommended thinner

THINNER 21-06

Volume of thinner

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

Nozzle orifice

Approx. 0.84 – 0.89 mm (0.033 – 0.035 in)

Notes:

- Use the lowest possible spraying pressure
 - Hose length should not exceed 12 meters
-

AMERCOAT® 741

Cleaning solvent

THINNER 21-06

Note: All application equipment must be cleaned immediately after use

ADDITIONAL DATA

Spreading rate and film thickness

DFT	Theoretical spreading rate
125 µm (5.0 mils)	5.0 m ² /l (199 ft ² /US gal)

Notes:

- If is not possible to measure the actual DFT as the finish will soak partly into porous zinc silicate primer
- Immediately after spraying the finish should have a completely wet appearance
- Excessive thickness in overlapping areas should be avoided otherwise cracking and flaking may occur

Curing time for DFT up to 125 µm (5.0 mils)

Substrate temperature	Insoluble to water	Dry to handle
10°C (50°F)	1 hour	6 hours
20°C (68°F)	30 minutes	4 hours
35°C (95°F)	15 minutes	2 hours

Notes:

- Drying times are dependent on air and steel temperature, applied film thickness, ventilation and other environmental conditions
- Adequate ventilation must be maintained during application and curing
- Maximum recoating time depends on coating system to be used
- Drying times may be accelerated by wetting the surface with fresh water

SAFETY PRECAUTIONS

- 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.

AMERCOAT® 741

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.

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

