

Safety Precautions

Read material safety data sheet before use. Safety precautions must be strictly followed during storage, handling and use.

CAUTION - Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mist and solvent vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interior and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for industrial use only. Not for residential use.

Shipping Data

Packaging 1 and 5 gallon containers

| Shipping weight (approx.) | lb | kg |
|---------------------------|----|------|
| 1 gal | 16 | 6.7 |
| 5 gal | 79 | 35.7 |

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)

12 months from manufacture date

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

This product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.



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Amercoat® 741

Solvent-based, self-cure inorganic topcoat

Product Data/ Application Instructions

- Outstanding solvent, temperature, and radiation resistance
- Self curing

Typical Uses

Amercoat 741 is a solvent-based, self-curing inorganic topcoat used over most Dimetcote® surfaces to provide a uniform color and excellent resistance to solvents, high temperature and radiation. Oak Ridge National Laboratory Test Reports show resistance to 1.0 x 10¹⁰ R radiation.

Resistance

Amercoat 741 has excellent resistance to normal weathering or high temperature, salts, splash and spillage of many solvents and nuclear radiation. For specific recommendations, contact your PPG representative.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Prior to coating, all surfaces must be clean, dry, undamaged and free of all contaminants, including salt deposits.

The Dimetcote® primer must be clean and dry. Remove the curing solution from postcured Dimetcotes.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Conventional spray – Industrial equipment such as DeVilbiss MBC or JGA spray gun. Separate air and fluid pressure regulators, mechanical pot agitator and a moisture and oil trap in the main air supply line are required.

Application Procedure

Note: This product is moisture-reactive. Keep containers closed to prevent moisture access.

1. Before use, clean all equipment with thinner or Amercoat 12.
2. Stir material thoroughly to a uniform consistency.
3. Continue to agitate material throughout application.
4. Thinning is not normally required; if needed for workability thin up to ½ pint of Amercoat 65 per gallon of Amercoat 741.
5. Apply a wet coat in even, parallel passes; overlap each pass 50 percent to avoid bare areas, pinholes and holidays.
6. Film will cure and harden on exposure to moisture and humidity.

Physical Data

| | | |
|--|---------------------------|-------------------|
| Finish | Flat | |
| Colors | White (others available) | |
| Components | 1 | |
| Volume solids (ASTM D2697 modified) | 63% ± 3% | |
| Coats | 1 | |
| Dry film thickness per coat | 3-8 mils (75-200 microns) | |
| Theoretical coverage | ft ² /gal | m ² /L |
| 1 mil (25 microns) | 1010 | 24.9 |
| 3 mils (75 microns) | 336 | 8.3 |
| | lbs/gal | g/L |
| VOC (EPA Method 24) | | |
| unthinned | 3.1 | 371 |
| thinned (½ pt/gal) | 3.3 | 395 |
| Flash point (SETA) | 65°F | 18°C |

Application Data

| | | |
|--|--------------------|--|
| Applied over | Dimetcote surfaces | |
| Method | Conventional spray | |
| Drying time (ASTM D1640) (hours) °F/°C | 70/21 | |
| touch | ¼ | |
| hard | 1½ | |
| through | 12 | |

Water insoluble in 15 minutes at temperatures above 32°F (0° C).

| | | |
|--------------------------|----------|-----------|
| Environmental conditions | | |
| Temperature | °F | °C |
| air | 0 to 120 | -18 to 49 |
| surface | 0 to 130 | -18 to 54 |

Surface temperature must be at least 5°F (3°C) above dew point to prevent condensation. At freezing temperatures, surface must be free of ice.

| | |
|--|------------------------|
| Temperature resistance | Up to 1000°F (537° C)* |
| * If applied at 2 - 3.5 mils dry film thickness with total system dry film thickness not to exceed 6 mils. | |

| | |
|-------------------|------------------------|
| Thinner | Amercoat 65 |
| Equipment cleaner | Thinner or Amercoat 12 |