



THERMASHIELD®

Fire Retardant Coating

Product Description

An air-dried, solvent based, fire resistant and ablative surface coating.

Intended Uses

To provide protection on a wide variety of substrates and surfaces against open flame, jet fire and high radiant heat.

Practical Information

Color	Beige
Gloss	Flat
Volume Solids	73.5%
Typical Thicknesses	1/64" to 1/4" (15-250 mils) depending on design application
Theoretical Coverage	20 ft ² /gal at 60 mils (1/16")
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Brush, Roller
Drying Time	Tack Free 60 Minutes Stackable 40 Hours Full Cure 30 Days

Times are based on 20 mil thickness at 68°F (20°C) with 50% humidity after spray application. Allow more time for increased thickness and humidity.

Regulatory Data

Flash Point	45°F (7°C)
Product Weight	10.27 lbs / gal (Approx. 1.23 kg/L)
Viscosity	Approx. 17,500 cps at 25°C (#6 @ 20 rpm)

THERMASHIELD®

Fire Retardant Coating

Surface Preparation

The surface to be coated with THERMASHIELD® must be properly prepared in accordance with good painting practice. The surface must also be clean of all residual oil, moisture, dust, frost or other contaminants that may have formed. When in doubt, soak rags in AVTEC solvent or tri-sodium phosphate (TSP) solution and thoroughly wipe down all surfaces to be coated. As the solvent evaporates, make certain any frost, moisture or oil deposits have been removed. In areas where spot rusting has occurred, be sure all loose rust, scale, etc. is removed.

PRIMERS

To provide proper protection against corrosion, all substrates should be primed with a proven compatible primer.

Before commencing work it is vitally important to determine the compatibility of THERMASHIELD® with the primers. Due to aromatic solvents in the coating, THERMASHIELD® applied to non-compatible surfaces will have a softening, or in some cases, a total paint removal effect on the primed surfaces. THERMASHIELD® has shown suitable compatibility with the following type of high quality, properly cured primers:

1. A fast drying, high solids, low VOC, heavy metal free, rust inhibitive, universal, alkyd metal primer that has been dried and well cured for at least 7 days at 70° F prior to THERMASHIELD® application.
 2. Most two-component epoxy primers.
 3. Aluminum surfaces must be primed with a vinyl-wash primer. Be sure to follow the surface preparation and application procedures as recommended by the coating manufacturer.
-

THERMASHIELD®

Fire Retardant Coating

Application	Mixing	This material is a one-component coating and should always be mixed thoroughly with a power agitator until uniform.
	Airless Spray	Recommended for use with the Graco Mark V Airless Electric Sprayer using a 31 thousandths Tip with a fluid pressure of 1,800 p.s.i. (3,300 p.s.i. Max.), at 1.25 gpm (contact Avtec Industries Inc. for further Info.)
	Air Spray (Pressure Pot)	Not Recommended. However the coating may be diluted with solvent to an acceptable viscosity for investigation with this method. (Contact Avtec for details.)
	Brush	Suitable for touch-up and small areas.
	Roller	Suitable for touch-up and small areas.
	Thinner	Not normally required and not recommended with an airless sprayer.
	Work Stoppage	Thoroughly flush all equipment with solvent. All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning or viscosity increase after storage.
	Clean up	Clean all equipment immediately after use with solvent. It is good working practice to periodically flush out spray equipment. Frequency of cleaning will depend on amount sprayed, temperature and elapsed time, including any delays. All surplus materials and empty containers should be disposed of in accordance with appropriate local regulations.

THERMASHIELD®

Fire Retardant Coating

Product Characteristics Mechanical mixing of THERMASHIELD® is required to assure uniformity of blended ingredients and proper material viscosity. For best results, use of an air operated motor or explosion proof electric mixer is recommended.

Maximum Build-up is best achieved with airless spray. Low or high temperatures may require specific application Techniques to achieve proper dry times, and uniformity.

Surface Temperature must always be 5°F (3°C) above dew point.

THERMASHIELD™ should be sprayed at a constant fluid temperature of 75-80°F (24-27°C) whenever possible. Pail and Drum heaters can be used to achieve this temperature

The Finished surface should be uniform and free of voids. Avoid using a mixture of application methods whenever possible.

Safety Precautions This Product is intended for use by professional applicators in industrial situations in accordance with the advice given on this Avtec Industries will provide Material Safety Data Sheets to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant, Health, Safety & Environmental standards and regulations.

If in doubt regarding the suitability of use of this product, consult **AVTEC INDUSTRIES** for further advice.

Packaging is in 5 gal U.S. Pails or 55 gal U.S. Drums UN 1263

Store in a cool dry place away from sources of heat and ignition

REV 1/07

Disclaimer: All information contained herein is believed to be accurate and reliable. However is it the user's responsibility to determine the suitability of this product for their own use. As the use of this product is beyond our control, no warranty, expressed or implied is made by Avtec industries, Inc. except to replace material deemed defective by use.

AVTEC INDUSTRIES
9 KANE INDUSTRIAL DRIVE
HUDSON, MA 01749

Phone: (978) 562-2300

Fax: (978) 562-8900

WWW.AVTECINDUSTRIES.COM