

DE 370 Ablative Coating

Dyna Therm

Technical Bulletin

June, 2010

**ITAR regulated
License Required for Export**

PRODUCT DESCRIPTION

Dyna-Therm DE-370 is a light weight, rigid epoxy based compound designed to provide ablative protection to missile components subjected to atmospheric aerodynamic heating. Manufactured at 100% solids, the consistency of DE-370 lends itself well to application by trowel, straight edge, or standard injection and transfer molding procedures. With solvent reduction to the proper viscosity, DE-370 may be sprayed onto rotating cylindrical surfaces.

SURFACE PREPARATION

Surface preparation should produce a substrate free of all wax, grease, rust, heat treat scale, paint, dust or moisture. Utilizing sand blasting, wire brushing, grinding, vacuum cleaning, and solvent washing or any combination of same can accomplish this.

SAFETY

Prior to use consult the MSDS for health, safety and disposal requirements. For industrial use only Keep out of the reach of children.

MIXING INSTRUCTIONS

DE-370 is supplied in pre-measured kits. mixing is best accomplished with a mechanical stirrer although initial viscosity permits stirring by hand if necessary. Mixing is considered complete when a uniform grey color is obtained.

APPLICATION

At 100% solids, DE-370 can be applied by trowel. The initial mix viscosity also lends itself to injection or transfer molding. reduction with DE-370 thinner permits application by spray using airless or conventional spray apparatus. Optimum spray conditions should be determined for each individual application.

CURE

DE-370 will cure overnight at room temperature. An increase in ambient temperature to a maximum of 140°F will reduce the cure time to between 2 - 4 hours.

Hardness	80 Shore A
Tensile Strength	3,000 psi
Abrasion Resistance	.089 cc. loss/1000 cycles
Color	Gray
Coverage	approximately 12 sq.ft. /gl. 1/8" Thick
Mix Ratio	2 parts to 1 by weight
Pot Life	2 hours minimum @ 75°F
Cure Cycle	24 hours @ 75°F
Optimum Properties	when cured 7 days @ 75°F
Shelf life	12 months
Density	62 #/ft. ³

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said test are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and user assumes all risk liability resulting from his use of the product. Sellers and manufacturers sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Warranty returns accepted only in their original unopened containers no warranty claims accepted for goods repackaged or altered. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller. Flamemaster does not warranty the performance of sealants and coatings subjected to fluids or fuel other than those specified by the applicable specification. It is the responsibility of the user to determine the suitability for use utilizing the information contained in the applicable specification.

Dyna Therm Products

Manufactured By The Flamemaster Corporation
13576 Desmond Street Pacoima, CA 91331-2315
Phone: 818 890-1401 *** Fax: 818 890-6001

www.flamemaster.com

Supersedes January, 2002

Page 1 of 1

This commodity is a defense article, regulated by the International Traffic in Arms Regulations (ITAR) and requires a State Department License for transport outside of the USA per CFR Title 22 Section 121.1 paragraph a) defense articles, b) significant military equipment (SME), and c) Missile Technology Control Regime Annex (MTCR). This is an ablative material - Category IV (f) on the U. S. Munitions List (USML) and Item 2 - Category I (2.A.1.b) of the MTCR.

ITAR regulated License Required for Export