

DE 370 Ablative Coating

Dyna Therm

Technical Bulletin

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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

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Dyna Therm Products

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