

## Wear Guard<sup>™</sup> Fine Load

None

Description: High-density, micro-alumina ceramic bead-filled epoxy system for protecting equipment that handles particulate smaller than 1/8"

Dust particulate applications including slurry pumps, scrubbers, screens, and screw conveyors

 Product
 Services temperatures to 300°F

 features:
 Trowelable to a smooth surface

 Outstanding resistance to a wide range of chemicals

Limitations:

Intended Use:

Typical Physical Properties: Technical data should be considered representative or typical only and should not be used for specification purposes.

## Cured 7 days @ 75° F

Adhesive Tensile Shear **Coefficient of Thermal Expansion** Color **Compresive Strength** Coverage/lb **Cured Hardness Cured Shrinkage Dielectric Constant Flexural Strength Full Cure Functional Cure** Mix Ratio by Volume Mix Ratio by Weight **Mixed Viscosity** Pot Life @ 75F **Recoat Time** Solids by Volume Specific Gravity Specific Volume **Temperature Resistance Tensile Strength** 

1,375psi 34 [(in.) / (in). x °F)] x 10(-6) Grev 11,000 psi 50 sq.in./lb. @ 1/4" 87D 0.0006 in./in. 46.0 7.190 psi 16 hours 6 - 8 hours 2:1 2.1 Non-sag putty 30 min. 4 - 6 hrs. 100 2.2 gm/cc 12.4 in.(3)/lb. Wet: 140°F; Dry: 300°F 4,300 psi

## TESTS CONDUCTED

Compressive Strength ASTM D 695 Cured Hardness Shore D ASTM D 2240 Cure Shrinkage ASTM D 2566 Dielectric Strength, volts/mil ASTM D 149 Modulus of Elasticity ASTM D 638 Adhesive Tensile Shear ASTM D 1002 Coef. of Thermal Expansion ASTM D 696 Dielectric Constant ASTM D 150 Flexural Strength ASTM D 790 Thermal Conductivity ASTM C 177

Surface Preparation:

1. Thoroughly clean the surface with Devcon® Cleaner Blend 300 to remove all oil, grease and dirt.

2. Grit blast surface area with 8-40 mesh grit, or grind with a coarse wheel or abrasive disc pad, to create increased surface area for better adhesion (Caution: An abrasive disc pad can only be used provided white metal is revealed). Desired profile is 3-5mil, including defined edges (do not "feather-edge" epoxy).

Note: For metals exposed to sea water or other salt solution, grit-blast and high-pressure-water-blast the area, then leave overnight to allow any salts in the metal to "sweat" to the surface. Repeat blasting to "sweat out" all soluble salts. Perform chloride contamination test to determine soluble salt content (should be no more than 40ppm).

3. Clean surface again with Devcon® Cleaner Blend 300 to remove all traces of oil, grease, dust or other foreign substances from the grit blasting.

4. Repair surface as soon as possible to eliminate any changes or surface contaminants.

WORKING CONDITIONS: Ideal application temperature is 55°F to 90°F. In cold working conditions, directly heat repair area to100-110°F prior to applying epoxy and maintain at this temperature during product cure to dry off any moisture, contamination or solvents, as well as to achieve maximum performance properties.

Mixing	It is strongly recommended that full units be mixed, as ratios are pre-measured			
Instructions:	<ul> <li>1. Add hardener to resin.</li> <li>2. Mix thoroughly with screwdriver or similar tool (continuously scrape material away from sides and bottom until a uniform, streak-free consistency is obtained.</li> </ul>			
	INTERMEDIATE SIZES (1,2,3 lb. units): Place resin and hardener on a flat, disposable surface such as cardboard, plywood or plastic sheet. Use a trowel or wide-blade tool to mix the material as in Step 2 above.			
	LARGE SIZES: (25 lb., 30 lb., 50 lb. buckets): Use a T-shaped mixing paddle or a propeller-type Jiffy Mixer Model ES on an electric drill. Thoroughly fold putty by vigorously moving paddle/propeller up and down until a homogenous mix of resin and hardener is attained.			
Application Instructions:				
	FOR BRIDGING LARGE GAPS OR HOLES Place fiberglass sheet, expanded metal, or mechanical fasteners between repair area and Wear Guard <sup>™</sup> Fine Load prior to application.			
	FOR VERTICAL SURFACE APPLICATIONS Wear Guard™ Fine Load can be troweled up to 3/4" thick without sagging.			
	FOR MAXIMUM PHYSICAL PROPERTIES Cure at room temperature for 2.5 hours, then heat cure for 4 hours @ 200°F.			
	FOR ± 70°F APPLICATIONS Applying epoxy at temperatures below 70°F lengthens functional cure and pot life times. Conversely, applying above 70°F shortens functional cure and pot life.			
Storage:	Store at room temperature, 70 °F.			
Compliances:	None			
	Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F)			
Chemical Resistance:		-		
noolotanool	1,1,1-Trichloroethane	Very good	Nitric 10%	Fair
	Ammonia	Excellent	Phosphoric 10%	Fair
	Benzene	Very good	Potassium Hydroxide 40%	Excellent
	Gasoline (Unleaded)	Excellent	Sodium Hydroxide 50%	Excellent
	Hydrochloric 10%	Very good	Sulfuric 10%	Very good
	Methanol	Poor	Toluene	Excellent
	Methyl Ethyl Ketone	Poor	Trisodium Phosphate	Very good
	Methylene Chloride	Poor		
Precautions:	Please refer to the appropriate safety data sheet (SDS) prior to using this product. For technical assistance, please call 1-855-489-7262 FOR INDUSTRIAL USE ONLY			
Warranty:	ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.			
Disclaimer:	All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.			
Order Information:	11470 30 lb.			