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Technical Bulletin

Armor Plate Wear Compound-High-Temp-K-037

Description:	Armor Plate Wear Compounds are two co designed to resist abrasive wear and corre		stems specifically
Ordering Information:	K-037-11.5 (11.5 LB Unit) K-037-25 (25 LB Unit) K-037-45 (45 LB Unit)		
Intended Use:	Repair and protect processing equipment such as pump casings, slurry lines, pipe elbows, chutes, cyclones, fans, coal breakers, pulverizers, and other high wear areas.		
Product Advantages:	Outstanding slide and impact resistance Resistant to a wide range of chemicals Non-Sagging when applied to vertical and	l overhead areas	
Application Guidelines:	MAXIMUM SERVICE TEMP 450°F (232°C) WORKING TIME 90 minutes FUNCTIONAL CURE - See Curing Procedu MIX RATIO 4/1 by Volume (4/1 by weigh	ures	
Coverage:	Coverage per pound is 26.5in ² (171cm ²) at 0.5in (1.27cm) thickness. The working time of Armor Plate Wear Compound (the time you have to apply the material before it sets) will vary according to the air temperature, the temperature of the material itself, and the surface to which it is applied.		
Physical Properties:	TENSILE STRENGTH FLEXURAL STRENGTH COMPRESSIVE STRENGTH TENSILE SHEAR STRENGTH WEAR RESISTANCE (weight loss) % HARDNESS, Shore D	3,700 psi 8,600 psi 16,000 psi 2,200 psi 0.6 90	Tests Conducted ASTM D 638 ASTM D 790 ASTM D 695 ASTM D 1002 ASTM D 2240
Surface Preparation:	The surface area must be free of all rust, scale, dirt, dust, grease, oil, or other contaminants. Thoroughly clean surface with a solvent to remove all contaminants. Grit blast surface area to be coated for optimal performance. If grit blast is not possible, grind with a coarse grinding wheel to white metal. For smoother surfaces or where vibration is a concern, tack weld an open mesh screen or expanded metal approximately 1/16 to 1/8 inch above the surface. Chip off welding slag.		
Measuring:	mor Plate ceramic kits are supplied with the resin and hardener pre-measured in the correct mixing tio. It is best to empty the entire contents of the resin and hardener containers on a mixing board to usure the proper mixing ratio is maintained.		
	If less than a full kit is required for the job out. DO NOT ATTEMPT TO "EYEBALL" TH component. Adding more or less hardene	IE AMOUNT NEEDED . Use a scale to we	igh out each

Mixing:	After the components have been measured on a clean, flat mixing board, mix thoroughly with a trowel until a uniform color is achieved. For mixing the larger kits a mixing paddle and heavy duty drill may be used. However the mechanical energy put into the mix by the drill may result in a shorter working time and a reduction of the non-sag characteristics of Armor Plate. Remember that incomplete mixing will result in poor curing, loss of physical properties, and "soft spots".
Application:	Initially apply a thin, wet coat to the surface to create tack. Build upon the tack coat to the desired thickness. If a screen or expanded metal is used for reinforcement, apply an excess of material at one end of the area and push it through the screen. Push the material so that it "wets" the surface below the screen and moves it in a continuous mass toward the other end of the area.
Curing Procedures:	For service up to 300°F (148.9 °C): Allow at least 8 hours cure at 77 °F (25 °C) or higher. Then preheat for at least 3 hours at the peak operating temperature prior to start up. For Service above 300 °F: Allow 8 hours cure at 77 °F (25 °C) or higher. Preheat 3 to 4 hours at 400 °F (204.4 °C) or peak operating temperature. DO NOT EXCEED 450 °F (232°C).

SAFETY PRECAUTIONS

Avoid breathing of vapors. Forced local exhaust is recommended to effectively minimize exposure. NIOSH approved, organic vapor respirators and forced exhaust are recommended in confined areas, or when conditions (such as heated polymers, sanding) may cause high vapor concentrations. **DO NOT WELD ON, BURN OR TORCH ON OR NEAR, ANY EPOXY MATERIAL. HAZARDOUS VAPOR IS RELEASED WHEN AN EPOXY IS BURNED.**

Avoid skin or eye contact. Wash skin with soap and water if contact occurs. If eye contact occurs flush with water for 15 minutes and obtain medical attention. Read and understand all cautions on can labels and safety data sheets before using this material.

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