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## product data

SELECTION & SPECIFICATION DATA 810 AR Coating is a 100% solids advanced ceramic composite, formulated to protect equipment from TYPE & aggressive erosion, chemical attack and corrosion. Easily applied by brush or roller, 810 AR may be applied at a DESCRIPTION minimum thickness of 12-16 mils per coat (2 coats recommended). Cures quickly at temperatures as low as 50°F to form an exceptionally tough, impact and abrasion resistant **ADVANTAGES** polymer matrix. Minimum down time. Sanitary, non-shrinking polymer. Gloss surface reduces drag, improving pump flow and efficiency. Tough resin structure resists thermal-mechanical shock Outstanding adhesion insures reliable performance with no undercutting. Labor and downtime costs are reduces due to ease of application. No heat curing is required. Performs well under fluctuating chemical environments. 810 AR may be used alone, or in conjunction with other Greenstone systems. This two-coat system provides USES extended wear ad predictable preventative maintenance. The cured ceramic composite provides outstanding chemical and abrasion resistance with moderate gloss finish. • Fans and Housings • Coal Hoppers and Feeders Hoppers **Cooling Water Pipes**  Heat Exchangers Waterboxes • Pump Casings Coal Screens Wear Plates Hydro Pulpers Structural Steel Condensers • Sand Filter Vessels Impellers Tanks and Vessels Vacuum Pumps Pulp Dewatering Screws Wet Scrubbers Volutes Pitted Tanks and Pipes Valves High Durability Deck Coatings FOR INDUSTRIAL USE ONLY! PHYSICAL DATA Compressive Strength - 11,850 psi Tensile Strength - 3,475 psi Impact Strength - 100 in./lbs. Indentation - No indentation MIL-D-3134F Maximum Temperatures - Wet Exposure 160°F, Dry Heat 250°F Shelf Life - 1 Year (warehouse conditions) Working Time - approximately 30 minutes at 75°F. Potlife - approximately 20 minutes at 75°F. Cure Time - hardens in 8-12 hours at 75°F. The warmer the temperature, the faster it cures. Allow a minimum cure of 24 hours for light traffic, and 96 hours for heavy traffic loads and chemical spillage. Solids - 100% Colors - Gray, Black. PACKAGING / 810 AR Coating -COVERAGE Supplied in multiple package sizes - 1 Pint Kit, 1 Quart Kit, 1 Gallon Kit, 5 Gallon Kit. Each kit contains premeasured containers (Part A and Part B). 1 QUART KIT - covers approximately 13.4 square feet at 30 mils (applied in two coats). 1 container - Part A (resin) 1 container - Part B (hardener)

SURFACE PREPAR	ATION AND SUBSTRATES Matal Surfaces: Degreese surface prior to sandblasting. Use organic solvents, alkaline solutions, steam, bot
SURFACE	water with detergents, or other systems that will completely remove dirt, all grease, etc. Plact the surface to
PREPARATION	mater with detergents, of other systems that will completely remove unit, on, grease, etc. Blast the surface to
	minimum anchor nattern or tooth the blacting media used shall be a properly graded clean sharp angular
	abrasive similar to Humble Abrasive Flint S7 (6-30 mesh) Steel Grit (HG25) or Black Beauty (BB1040)
	<b>New Concrete</b> : must have a minimum of 28 days cure, and no curing agents or sealers shall be used. Remove
	oil, grease or other loose or foreign materials and contaminants. A good bonding tooth, the texture of rough
	sandpaper, is required to maximize adhesion, with the removal of all glaze. Examples of mechanical surface
	prep including, but not limited to - A Sandhlast with steel shot fine silica, or other similar material
	B. Wheel Abrader C. Scarify
	Existing Concrete: remove all loose, weak concrete, and any paint wax, oil, grease or other contaminants.
	Once the concrete has been cleaned and neutralized, mechanical surface preparation shall be used to provide
	a good bonding tooth, a texture of rough sandpaper, with the removal of all glaze. Examples of mechanical
	surface preparation including, but not limited to - A. Sandblast with steel shot, fine silica, or other similar material. B. Wheel Abrader
	B. Scarify
	Note: Holes and depressions 1/16" or deeper should be prefilled with 860 AR Liner, or a similar system, prior to
	application. All surfaces must be dry prior to application of polymer system.
MIXING	Mix Part A and P thoroughly, with a low rom "iiffy" type mixer for 2 minutes until completely homogeneous
	Important. The working life of the mixed blend is approximately 20 minutes. Mixed materials remaining in a
	container will produce heat. Keen away from combustible materials. Do not receal mixed containers!
APPLICATION AND	SAFETY
APPLICATION	<b>Caution</b> Application in direct suplight, resulting in rising surface temperature, may cause blistering of the
	materials due to expansion of entranned air or moisture in the concrete. Concrete surfaces that have been in
	direct sunlight must be shaded for 24 hours prior to application, and remain shaded until the initial set of the
	polymer. When the substrate temperature is rising, it is recommended to postpone application.
	Minimum application temperature. Do not apply when substrate temperature is below E0°E
	For application, the 810 AP Coating racin & bardener should be stored at a minimum temperature of 70°E
	Always apply the material as soon as blended. The not life is approximately 20 minutes, and the working life is
	annovimately 30 minutes
	<b>APPLICATION -</b> Greenstone 810 AR can be applied at a minimum thickness of 10 mils. 810 AR Coating can be
	applied by brush, or roller. When used alone, two coats of 810 AR is recommended, at 16-20 mils per coat.
	<b>Brush:</b> A high quality natural bristle brush should be used
	<b>Poller:</b> Use a 3/8" nan roller with phenolic core
	<b>CLIPE TIME</b> - Will barden in approximately 8-12 hours at 75°E. The warmer the temperature, the faster the
	cure. For full cure at 75°F allow 48 hours
	Minimum recoat times are as follows: 8-10 hours at $60^{\circ}$ E 4 hours at $75^{\circ}$ E 2 hours at $90^{\circ}$ E
	<b>CLEAN-LIP</b> . Cured or hardened 810 AB Coating is almost impossible to remove. Clean tools and equipment
	immediately with hot soapy water, or a mixture a acetone and ethanol.
SAFETY	Observe good personal hygiene. Certain personnel may be sensitive to various types of resins which may cause
	dermatitis. Avoid contact with skin and breathing of vapor. Read and follow all caution statements on product
	info bulletin, material safety data sheet and container labels for this product. This bulletin provides standard
	information for the system and application procedure. Since varying application conditions may not be
	covered, consult GREENSTONE Technical Service Department for further information.
	We guarantee our product to be free of defects in material and workmanship, and to be in accordance with our company quality control standards. All data. statements and
	recommendations made herein are based upon information we believe to be reliable, but are made without any representation or guarantee or warranty of accuracy and are made with reservation of all patent rights. Our products are sold on the condition that the user will evaluate them, as well as our recommendations, to determine their suitability for his own purpose before adoption. Also, statements regarding the use of our products or products or processes are not to be construed as recommendations for their use in violation of any patent rights or in

violation of any applicable laws or regulations. Liability under any condition shall be limited to replacement of material only. No liability is assumed or implied, for injury to personnel, labor costs, product loss or any other expenses incidental to the structure or operation of the plant and equipment where the system is being applied. Rev 1/21