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product data

SELECTION & SPECIF	ICATION DATA
TYPE & DESCRIPTION ADVANTAGES	 860 AR LINER is a 100% solids advanced ceramic composite, formulated to protect equipment from aggressive erosion, chemical attack and corrosion. Trowel applied at a nominal film thickness of 1/8" per coat. Formulated for extremely abrasive and corrosive environments where metal loss is often repaired by more conventional weld overlay. It can be used either to rebuild eroded metal surfaces or to provide a wear resistant surface with typically outperforms the original metal, weld overlays or rubber liners. 860 AR cures at temperatures as low as 50°F to form an exceptionally abrasion resistant polymer-aggregate
	matrix. 860 AR is applied to a primed surface by trowel, where close tolerances and a smooth finish are required. Dramatically outlasts other wear resistant materials and coatings, extending the operating cycles of equipment. Outperforms weld overlays. May be molded to precise dimentions for critical tolerances. Performs well in a variety of fluctuating chemical environments.
USES	 860 AR may be used alone, or in conjunction with other Greenstone systems. This trowel applied liner system greatly extendes surface wear and will provide predictable preventative maintenance. Pulverizers Pulverizers Hoppers and Silos Slurry Pumps and Pipe Elbows Blowers Transport Pipelines for Abrasives Lined Chutes 860 AR may be used alone, or in conjunction with other Greenstone systems. This trowel applied liner system greatly extendes surface wear and will provide predictable preventative maintenance. Dredge Pumps Tile Lined Conveyor Screws Fans Cyclones Metal Clad Exhaust Fan Housings Rubber Lined Deflector Hoods
GOVERNMENT AGENCY	Meets the requirements of the U.S. Department of Agriculture (USDA) for use as an incidental food contact lining system. FOR INDUSTRIAL USE ONLY!
PHYSICAL DATA	Compressive Strength - 15,250 psi Tensile Strength - 6,350 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 48 hours at 75°F for full cure. Solids - 100% Colors - Charcoal.
PACKAGING / COVERAGE	 860 AR Lining System - components sold separately - 860 AR PRIMER - 1 quart - covers approximately 50 square feet at 8 mils - 1 container - Part A (resin) 1 container - Part B (hardener)
	 860 AR LINER - 1 batch - covers approximately 12.5 square feet at 1/8" 1 container - Part A (resin) 1 container - Part B (hardener) 1 bag - Part C (Abrasion resistant and chemical resistant aggregate)
	860 AR LINER - 2 batch - covers approximately 25 square feet at 1/8"

		1 container - Part A (resin)
		1 container - Part B (hardener)
		1 bag - Part C (Abrasion resistant and chemical resistant aggregate)
		810 AR Coating (Veil coat) - 1 quart - covers approximately 50 square feet at 8 mils -
		1 container - Part A (resin)
		1 container - Part B (hardener)
Supplement Products	tal	813 AR Filler
Chemical		Recommended for exposure to many concentrations of acids, alkalies, bleaches and other chemicals. Please
Resistance		refer to the Greestone Chemical Resistance Guide for a comprehensive list of chemicals and the corresponding
Resistance		resistance ratings.
SURFACE PRE	EPARAT	ION AND SUBSTRATES
SURFACE		Metal Surfaces: Degrease surface prior to sandblasting. Use organic solvents, alkaline solutions, steam, hot
PREPARATIO	N	water with detergents, or other systems that will completely remove dirt, oil, grease, etc. Blast the surface to
		near white SSPC-SP 10-70, or NACE No. 2 using a Venturi blast nozzle with 100psi air. To produce the 4 mil
		minimum anchor pattern or tooth, the blasting 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). Note: Holes and depressions 1/4" 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 AND EQUIPMENT		
MIXING		Primer - Add the Part B to the Part A and mix thoroughly until uniform in color with no streaking.
		Liner - Empty the contents of Part B into Part A and mix thoroughly. When completed, empty the entire
		container into a mechanical mixer, draining for approximately 30 seconds. Start the mixer, and slowly add the
		Part C, aggregate, and mix the three components for approximately 3 minutes - until completely
		homogeneous.
		Mixer: A mechanical mixer designed for quick, thorough mixing of aggregate epoxy systems similar to those
		manufactured by -
		Kol Mixal Quick Stir, INC.
		Div. of Man U Fab Inc. P.O. Box 327
		Minneanelis MN 55422
		Important! - The working life of the mixed blend is approximately 20 minutes. Always pour mixed batches as
		soon as nossible. Mixed materials remaining in a container will produce heat. Keen away from combustible
		materials Do not reseal mixed containers!
APPLICATION	N AND S	AFETY
APPLICATION	N	PRIMER: Apply approximately 8 mils of 860 AR Primer by brush or roller. Spread the mortar immediately,
		before the Primer has hardened, which will occur in approximately 60 minutes at 75°F. LINER: Place mixed 860 AR LINER on a mud board and then take a small amount on the center of a small
		trowel. Spread mortar firmly with a trowel evenly over the primed surface in long, even strokes with heavy
		trowel pressure. Fill in low spots as you go. Remove any surface marks by quickly passing over the mortar
		surface with light pressure. A quality "swimming pool" finishing trowel, such as Goldblatt or Marshalltown,
		is recommended. CURE TIME - 860 AR LINER will harden within a few hours at 75°F. The warmer the temperature, the faster
		the cure. Allow 48 hours for full cure.
		CLEAN-OP - Cured of hardened dreensione 800 AK Linek is annost impossible to remove. Clean tools and
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. Since varying application
		conditions may not be covered, consult GREENSTONE Technical Service Department for further information.
	Rev 1/21	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 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.