610-874-8436
ers@wasinc.com

ENGINEERED RESIN SOLUTIONS

ERS 406 LEAK GUARD

SELECTION & SPECIFICATION DATA

Type	Polyamide Epoxy
Description	ERS 406 LEAK GUARD is a fast-setting version of Novocoat EP5700 Ceramic Paste, ErgonArmor's high performance paste-grade novolac repair compound for shop and field repair and rebuilding of equipment. It is ideally suited for fixing tank leaks, piping, and electrical bushings and for setting keyways or taper fits when fast turnaround is critical.
Features	» Fast cure for emergency repairs » Complies with ASME PCC-2, Article 4.1 as long-term repair » Outstanding bond strength » Excellent chemical resistance » Machinable » Non-shrink and low-slump for repair of vertical surfaces » Surface tolerant and moisture tolerant
Uses	» Metal cooling tower pans » Emergency tank and pipe repairs » Weld repairs » Electrical bushings » Setting keyways and taper fits » Repair of metal, fiberglass, composite, PVC and similar plastic materials
Color	Dark gray
Finish	Satin
Solids Content	99 – 100% by volume

SUBSTRATES & SURFACE

ALL	Substrate must be clean, dry and free of contaminants.
Steel	Immersion: SSPC-SP 10/NACE 2 Near White Metal Blast with angular profile of 2.5 - 3.5 mils. Non-immersion: SSPC-SP 6/NACE 3 Commercial Blast with angular profile of 1.5 - 3.0 mils, SSPC-SP 2 Hand Tool or SSPC-SP 3 Power Tool Cleaning are suitable for mild environments. Self-priming on steel.
Weld Repair	Use a flame to sweat out oil from deeply impregnated surfaces. Stabilize cracks by drilling the extremities. Long cracks should be drilled, tapped and bolted every few inches. Vee-out all cracks using a file. Degrease using clean rags.

MIXING

Mixing	Thoroughly mix the two parts, supplied in premeasured sachet packs, until no streaks are seen. Mix no more product than can be applied in 5 minutes.
Pot Life	5 minutes at 77°F (25°C) Pot life is shorter at higher temperatures. A larger volume of mixed material will have a shorter pot life than a smaller volume.
Multiple Layers	If building layers or pipe wrapping with reinforcing cloth, apply the coating within the recoat window. If this is not possible, allow the compound to cure, then create a mechanical profile by grit blasting, grinding or power tool sanding the surface before coating.
Cleanup	MEK or Acetone

APPLICATION GUIDELINES

Conditions	Substrate surface temperature 50°F – 140°F (10°C –60°C) and at least 5°F (3°C) above the dew point and rising. If surface temperature is above 140°F (60°C), consult ErgonArmor Technical Service for guidance.
Application	Apply directly onto the prepared surface with the spreader or mixing knife provided. Press down firmly to remove entrapped air, fill all cracks, and ensure maximum contact with the surface. Use reinforcement tape over holes and cracks. Fully machinable using conventional tools once cured.
Brush & Roller	Brush or roller can be used to smooth uncured surface with solvent if desired.

CURESCHEDULE & RECOAT WINDOW

TEMPERATURE	WORKING TIME	RECOAT WINDOW	MACHINING	MECHANICAL SERVICE	CHEMICAL SERVICE
50°F (10°C)	10 min.	40 min.	1 hr.	1 hr.	6 hr.
68°F (20°C)	5 min.	20 min.	30 min.	30 min.	3 hr.
86°F (30°C)	2.5 min.	10 min.	15 min.	15 min.	1.5 hr.

Return-to-service varies with chemical exposure.
Consult Engineered Resin Solutions for guidance.

610-874-8436
ers@wasinc.com

ERS 406 LEAK GUARD

All package variations of this product are unavailable to be shipped by air.

COVERAGE AND SHELF LIFE

Theoretical Coverage

Each 170 g bag kit covers about 50 square inches at 1/8-inch thickness. Allow for loss in mixing and application.

Storage & Shelf Life

Maintain product in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 75°F (24°C). Actual shelf life may vary with storage conditions. Do not store below 40°F (4°C) or above 110°F (43°C).

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with ERS.

SAFETY

Safety

Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation

Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TEMPERATURE RESISTANCE

SERVICE	MAXIMUM TEMPERATURE
Dry	250°F (121°C)
Spill/splash	212°F (100°C)
Immersion	140°F (60°C)

Temperature limitations will vary with chemical exposure. Consult Engineered Resin Solutions for guidance.