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ENGINEERED RESIN SOLUTIONS

WATER SERVICE / CORROSION / LEAK STOP

ERS 80RS-RUST STOPPER

LIQUID GRADE

High grade resin system to rehabilitate and provide long-term corrosion protection to tanks and pipes without the requirement for grit blasting.

- Low Cost System
- Minimal Surface Prep
- Outstanding adhesion to mechanically prepped surfaces
- Used in any environment
- Tolerates wet application
- 100% Solids
- Brush, roller and spray applied
- Environmentally Friendly

» **ERS RUST STOPPER** is a high grade resin system with anticorrosion resistant fillers. Can be applied over manually prepared surfaces to provide a primer for high performance topcoat when blasting is not possible.

» **ERS RUST STOPPER** is user friendly and is readily applied by brush, roller and spray. It can be applied over "clean" corroded surfaces without surface prep. In worse conditions wire brush, mechanical abrade and/or solvent wipe, before application.

Maintenance professionals are recommending **ERS RUST STOPPER** as the most effective, low cost option to eliminate corrosion problems.

- » Tank exteriors
- » Primer acid spills
- » Support columns
- » Grating / Walkways
- » Pipe Lines
- » Pipe Racks
- » Corrosion under Insulation
- » Damp Surface

Stops corrosion in it's tracks on pipe and tank exteriors

TECHNICAL DATA

Volume Capacity	231cu in per gallon
Weight per gallon	9.33 lb
Coverage per gallon	200 sf per gallon 8 mils
Volume solids	100% (No VOC)
Applications required	1-2 coats @ 4-8 mils.
Shelf Life	2 years

		Base	Activator
Mixing Ratio	-Volume	2.0	1.0
	-Weight	1.6	1.0
Color		Blue/White	Amber

CURE TIMES

Ambient Temp.	Pot Life	Overcoat Window Min — Max	Light Load	Full Service
60° F	1 hr.	10 hr. — 48 hr.	24 hr.	7 day
77° F	30 min.	8 hr. — 24 hr.	10 hr.	24 hr.
100° F	10 min.	2 hr. — 4 hr.		4 hr.

PUMP SPECIFICATIONS

Pump Ratio	Minimum Output	Minimum Hose ID	Maximum Hose Length
56:1	5,600 psi	3/8 - 1/2-in	100-ft.

PHYSICAL PROPERTIES

	Test Value T	Test method
Pull Off Adhesion	1,600 ps	ASTM D4541
Flexibility	35%	ASTM D522-2

(CS17 Wheel 1kg)

CHEMICAL RESISTANCE

Acetic Acid	Isopropyl Alcohol
***Ammonium Hydroxide**	Most Phosphates
Benzone	Nitric Acid (10%)
Black Liquor	*Potassium Hydroxide (up to 50%)
Butyl Acetate	*Sodium Hydroxide (up to 50%)
Butyl Carbitol	Sulfuric Acid (up to 50%)
Most Chlorides	1,1,1-Tricholoromethane
Hydrochloric Acid (up to 20%)	Urea Solutions
Hydrogen Sulfide	White Liquor

SERVICE TEMPERATURE

	Max continuous Exposure	Spike (30-60 min)
Dry Service	200°F	300°F
Spill/Splash	180°F	
Immersion	140°F	

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USING RUST STOPPER

Surface Preparation: ERS-3300 should only be applied to clean, dry and well-roughened surfaces. Depending on the surface, solvent clean or remove contamination by abrasive blasting, stream cleaning, high pressure water blasting, acid washing or other suitable means. SALT-X should be used for seawater, salts, bromates, phosphates, gypsum or lime.

Metal, Steel and Iron: Remove all oil, grease or scale from the surface and, then blast with an angular grit to give a minimum of 2-3 mil profile for the following services.

Non-chemical Service	SSPC-SP6 Commercial Blast
Intermittent Splash	SSPC-SP10 near White Metal
Immersion/Abrasion	SSPC-SP5 White Metal Blast

ALUMINUM AND FRP: Use an alkaline detergent cleaner to provide a clean, uniformly textured surfaced.

Concrete: All concrete surfaces should be primed with **ERS-1100** to avoid out gassing and to increase adhesion. Although **ERS-1100** can be applied to concrete that has cured a minimum of 7 days, it is recommended that it has aged at least 28 days before coating. Wash down old concrete to remove residues and neutralize the pH before surface prep. A second wash may be required for severeservice. Sandblast, scarify or water blast to remove any form-release agent, curing agent, laitance, calcification or sealant. Two coats of **ERS-1100** may be needed to prevent bubbles on highly
air-entrained concrete.

Mixing Procedure: (Mixing partial kits is not recommended.)

1. Thoroughly mix the resin before adding hardener.

2. Empty all the hardener into the resin container.

3. Mix thoroughly with a mechanical mixer (or stirrer) continue for 2 minutes after consistency is uniform. Keep blade low, to avoid trapping air.

Thinning: Thinning is not generally recommended. If thinning is necessary below 60ºF, add 4 – 6 fl. oz. of MEK to the resin and mix thoroughly before adding the hardener. Do not exceed 10% solvent by volume.

Application: Pour blended coating into rolling tray or a large basting pan to a depth of 3/8-in. or less to reduce exothermic, heat generation and shortened pot-life.

1. If the ambient temperature is 85ºF or higher, pot life may be as short as 15 minutes. Keep the material cool or put the tray on ice to extend life.

2. RUST STOPPER should not be applied below 40ºF.

3. RUST STOPPER may be applied when the relative humidity is 100%, or even on damp surfaces.

4. Second and subsequent coats must be applied before the previous coat has completely cross-linked. Apply additional coats when the previous coat still has a slight tack remaining.

5. The same procedure applies for overlapping seams of adjacent coating to create a continuous, monolithic film. Power brush/sand the seam.

Speed Curing: The cure time can be reduced and performance enhanced by applying heat during curing.

Clean up: Use a mixture of MIBK and butyl acetate (50/50), MEK or MIBK and xylene (50/50) for clean up. Skin can be cleaned with denatured alcohol (ethanol.)

Technical Support: The ERS engineering team is always available to provide technical support and assistance. For guidance on any question, call your local ERS rep or the ERS Engineering Center.