

TECHNICAL DATA SHEET

NO SKIDDING ES-83-2 EPOXY SLIP RESISTANT FLOOR COATING

DESCRIPTION

ES-83-2 is a high-solids, high-build, slip resistant epoxy protective coating for tough industrial environments. This coating is designed to permit application directly to concrete tightly adhering rust and intact old paint.

With its blend of penetrants and surface tension-control agents, ES-83-2 has superior wetting action and creates a tight bond. The result is a tough, durable coating with excellent resistance to weather, moisture, sunlight and chemical fumes. The low-solvent formula will typically not lift or wrinkle old paint, and it is also an excellent direct-to-metal protective coating for new, unpainted surfaces. It meets existing VOC regulations and meets requirements for indirect food contact, CFIA (Canadian Food Inspection Agency)

For durable anti-slip protection when used with traction grit in a variety of industrial settings.

A tough coating that seals and protects in just one application, it is an excellent all-in-one primer and topcoat for new and existing floors in industrial facilities and exterior weathered exposure. It resists high humidity and moisture, and is compatible with prepared damp surfaces.

ES-83-2 cures through wide temperature range, and is available in a range of colors. It is a self-priming topcoat over most existing coatings. Its chemical resistance to splash/spillage and fumes makes ES-83-2 an excellent choice for a wide variety of general maintenance applications.

PRODUCT DATA

- Fast Dry, dry to touch in 2 hours at 70°F (21°C)
- Recoat in 3 hours at 70°F (21°C)
- Low temperature cure down to 0°F (-18°C)
- Surface tolerant, excellent adhesion to tight rust and prepared damp surfaces
- Self-priming topcoat over most existing coatings
- Meets existing VOC regulations including SCAQMD Rule 1113 requirements for 2002

SURFACE PREPARATION

Coating performance is, in general, proportional to the degree of surface preparation. All surfaces must be clean, dry and free of all contaminants, including salt deposits.

ES-83-2 may be used over most types if properly prepared and tightly adhering coatings. A test patch is recommended for use over existing coatings.

Galvanizing – Remove oil or soap film with detergent or emulsion cleaner, then use zinc treatment or equivalent.

PHYSICAL DATA

Finish: Semi Gloss	Color: Standard and Custom	Curing Mechanism: Solvent release and chemical reaction between components
Components: 2	Volume Solids (ASTM D2697 modified): 83% ±3%	
Coats: 1 or 2	Dry Film thickness (per coat): 4-8 mils (100-200 microns)	

Anti-slip coating:	Up to 150 square feet per gallon	
VOC	1.5 lb/gal	180 g/L

Temperature resistance, wet dry				
	°F	°C	°F	°C
Continuous	100	38	200	93
Intermittent	100	38	350	177
Flash Point (SETA)	°F	°C		
Resin	131	55		
Cure	114	29		
ES-83-2 Thinner	2	-17		

TYPICAL PROPERTIES PHYSICAL

Abrasion resistance (ASTM D4060):	1 kg load/1000 cycles CS-17 wheel	weight loss 102 mg
Impact resistance (ASTM D2794):	Direct Reverse	24 in lb 6 in lb
Moisture vapor transmission (ASTM F1249):	4.0 gm/m ² /day	
Adhesion (ASTM D4541):	1200 psi	
PERFORMANCE		
Salt spray (ASTM B117) 3500 hours:	Face corrosion/blistering	none
Humidity (ASTM D2247) 1500 hours:	Face corrosion/blistering	none

CHEMICAL RESISTANCE GUIDE

Environment	Immersion	Splash & Spillage	Weather
Acidic	*	F	G
Alkaline	*	E	E
Solvents	*	G	E
Salt Water	E	E	E
Water	E	E	E

F – Fair G- Good E-Excellent

APPLICATION DATA

Mixing Ratio (by volume) Two gallon kit: 1 part resin to 1 part cure, also 5 gallon pail 1 part resin to 1 part cure
Environmental conditions: Air and surface temperature 20° to 120°F (-6° to 49°C)
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation. At freezing temperatures, surface must be free of ice.

Drying time (ASTM D1640) (hours)

	Touch °F/°C					
	120/49	90/32	70/21	50/10	32/0	20/-6
ES-83-2 Fast Cure	0.5	1	2	8	24	48
ES-83-2 Regular Cure	1.5	4.5	9	28	96	-
Through						
ES-83-2 Fast Cure	1	2	4.5	13	38	96
ES-83-2 Regular Cure	6	12	20	40	140	-

Thinner – ES-83/65

Equipment Cleaner – Thinner or ES-83/12

	°F/°C		
	90/32	70/21	50/10
Recoat/Topcoat time			
Minimum (hours)	1	3	6

* Recoat/Topcoat time @ 70°F (21°C)

One Week

Note: If maximum time is exceeded, roughen surface. For topcoats (finish coats) not listed, see product data sheet for specific topcoat time limitations.

Pot Life (hours)

	°F/°C			
	90/32	70/21	50/10	32/0
Unthinned Fast Cure	0.75	1	2	4
Unthinned Regular Cure	1.5	2.5	4	7

NOTICE: READ AND FULLY UNDERSTAND SDS BEFORE USING.

IMPORTANT NOTICE: This product is designed to help reduce the hazards of slippery areas when used with traction grit. This product cannot eliminate slipping. Seller and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, user shall determine the suitability of the product for the intended purpose, and the user assumes all risk and liability whatsoever in connection therewith. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer. Buyer assumes all risks and liability associated with disposal. E & OE

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