

No Skidding®



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We warehouse within the U.S. for our U.S. customers

EPOTUFF ES-83
HEAVY DUTY INDUSTRIAL • FAST DRYING HIGH SOLIDS
TWO-PART • SLIP-RESISTANT



ES-83 Epoxy Slip Resistant Floor Coating

ES-83 is a high-solids, high-build, slip resistant epoxy protective coating for tough industrial environments. Especially formulated to solve complex slip injury problems, with minimal surface preparation. These coatings are designed to permit application directly to tightly adhering rust and intact old paint.

With its blend of penetrants and surface tension-control agents, ES-83 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 drinking water and indirect food contact.

For durable anti-slip protection in a variety of industrial settings, and for every maintenance painting job.

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 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 an excellent choice for a wide variety of general maintenance applications.

Fast drying time - dry to touch in as few as two hours at 70°F (21°C) - and recoat in three hours. Offers the least amount of odor, low temperature cure down to 0°F (-18°C), superior chemical resistance and qualities, such as high surface tolerance for excellent adhesion.

ES-83 high solids coatings save time and money in slip injury prevention

- 1) Primer and topcoat in one - no downtime, less costly to apply.
- 2) Requires minimal surface preparation. Surface tolerant .
- 3) Can be applied over old paint and rust. Low-solvent formula penetrates to form a tight bond. Compatible with most older coatings, as well as damp substrates.
- 4) Application by roller is quick and easy. At 70°F (21°C) dries to the touch in just 2 hours. Cures to a tough, durable film that resists moisture, and chemical fumes.
- 5) A single 5-mil (125 microns) coat delivers long-term protection compared to conventional paints that require two or three coats and deliver short-lived protection.
- 6) Can be applied in cold weather temperatures down to 40°F (4°C), even down to freezing, if the surface is free of ice.
- 7) Available in a variety of standard colors.

Product Data & Application

- 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 all existing VOC regulations including SCAQMD Rule 1113 requirements for 2002

Typical Uses

ES-83 is designed for use in a variety of areas, even those where surface preparation is impossible. As a maintenance coating, ES-83 protects and slip proofs steel in industrial facilities, bridges, marine weathering, and other exposures. Good chemical resistance to splash/spillage, fumes and immersion in neutral, fresh and salt water (see resistance table).

Qualifications

1. USDA - Incidental food contact
2. NSF Standard 61 - For use in drinking water.
3. FDA 21 CFR 175.300 extraction test for direct food contact.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. ES-83 can be applied over mechanically cleaned surfaces. All surfaces must be clean, dry and free of all contaminants, including salt deposits.

ES-83 may be used over most types of 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 colors
Components	2
Curing mechanism	Solvent release and chemical reaction between components
Volume solids (ASTM D2697 modified)	83% ± 3%
Dry film thickness (per coat)	4-8 mils (100-200 microns)
Coats	1 or 2

Theoretical coverage	ft²/gal	m²/L
1mil (25 microns)		

ES-83	1331	32.6
5 mils (125 microns)		
ES-83	266	6.5

VOC	lb/gal	g/L
ES-83	1.5	180

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 Thinner	2	-17

Typical Properties Physical

Abrasion resistance (ASTM D4060)	
1 kg load/1000 cycles	weight loss
CS-17 wheel	102 mg

Impact resistance (ASTM D2794)	
Direct	24 in • lb
Reverse	6 in • lb

Moisture vapor transmission (ASTM F1249)	4.0 gm/m ² /day
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Adhesion (ASTM D4541)	1200 psi
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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	

This table is only a guide to show typical resistances. For specific recommendations, contact your No Skidding Products representative for your particular corrosion protection needs.

Application Data

Mixing ratio (by volume) Two gallon kit . 1 part resin to 1 part cure
also Five gallon pail “ “

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 Fast Cure	0.5	1	2	8	24	48
ES-83 Regular Cure	1.5	4.5	9	28	96	-
	through					
ES-83 Fast Cure	1	2	4.5	13	38	96
ES-83 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)

1 week

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

	°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

Pot life is the period of time after mixing that a five-gallon unit of material is sprayable when thinned as recommended. Mixture may appear fluid beyond



READ MATERIAL SAFETY DATA SHEET BEFORE USING THIS PRODUCT.

Limitations

The technical data and suggestions for use in this product data sheet are currently correct to the best of our knowledge, but are subject to change without notice. Because application and conditions vary, and are beyond our control, we are not responsible for results obtained in using this product, even when used as suggested. The user should conduct tests to determine the suitability of the product for the intended use under then existing conditions. Any liability we may have with respect to a product or its use (including liability for breach of warranty, strict liability in tort, negligence or otherwise) is limited exclusively to replacement of the product or refund of its price. Under no circumstances are we liable for incidental and consequential damages.

PLEASE READ AND FULLY UNDERSTAND LABEL AND MSDS BEFORE USING.

Important: Seller's and manufacturers 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 use, and the user assumes all risk and liability whatsoever in connection therewith. No statement of recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of the seller and manufacturer. Buyer assumes all risk and liability associated with disposal.

No Skidding products are in use around the world in hotels, warehouses, factories, shopping malls, public transit systems, airports, hospitals and senior care, office complexes, restaurants, day care, schools, fitness clubs, government and military facilities.

The most complete range of slip injury prevention products in the World.



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