



Presents the New

S.A.F.E Coat System

Slip And Fall Eliminator Coating System

*Safety Flooring Coating System
for Foot and Vehicle Traffic*

S.A.F.E Coat System

The Anti-Slip Problem



- “Slips, trips, and falls constitute the majority of general industry accidents. They cause 15% of all accidental deaths, and are second only to motor vehicles as a cause of fatalities.”
- OSHA
- Worker safety is a vital issue facing small & large business especially with industries with heavy equipment!
- Preventable Slips and Falls can lead to increased Insurance Premiums, Lawsuits and downtime!

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Anti-Slip Problem



- Current “anti-slip” products such as adhesive tapes and paint/epoxy with grit **do not** provide durable bonds or lasting wear.
- Manufactured panels such as diamond/serrated plate or hole punched are either **slippery when wet** or **too aggressive**.

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Benefits for Industrial Use



- Continuous Safe Conditions For Customers, Personnel & even Vehicle Traffic
- Long Lasting Attractive, multiple sealant colors available
- Cleaned By Scrubbing and/or Pressure Washing
- Protects underlying Surface From Corrosion
- Panels can be Steel or Aluminum or Direct Spray
- Enhanced worker safety vs. other non skids on market!

S.A.F.E Coat System



Properties of S.A.F.E. Coat

- High Bond Strengths (2500 psi on steel)
- **Resists Oils, Brake Fluids and other solvents**
- Resistant To Wear (Ceramic Rc60+)
- Resistant to Impact (Passes US Navy Ball Drop Test)
- Meets MIL-PRF-24667 for Non Skid Coatings
- Withstands Flexing (Passes Bend Tests)
- Coefficient of Friction is .95 average
 - OSHA standard in .50, Navy Standard avg. is .90
- Highly Resistant to Cracking and delamination

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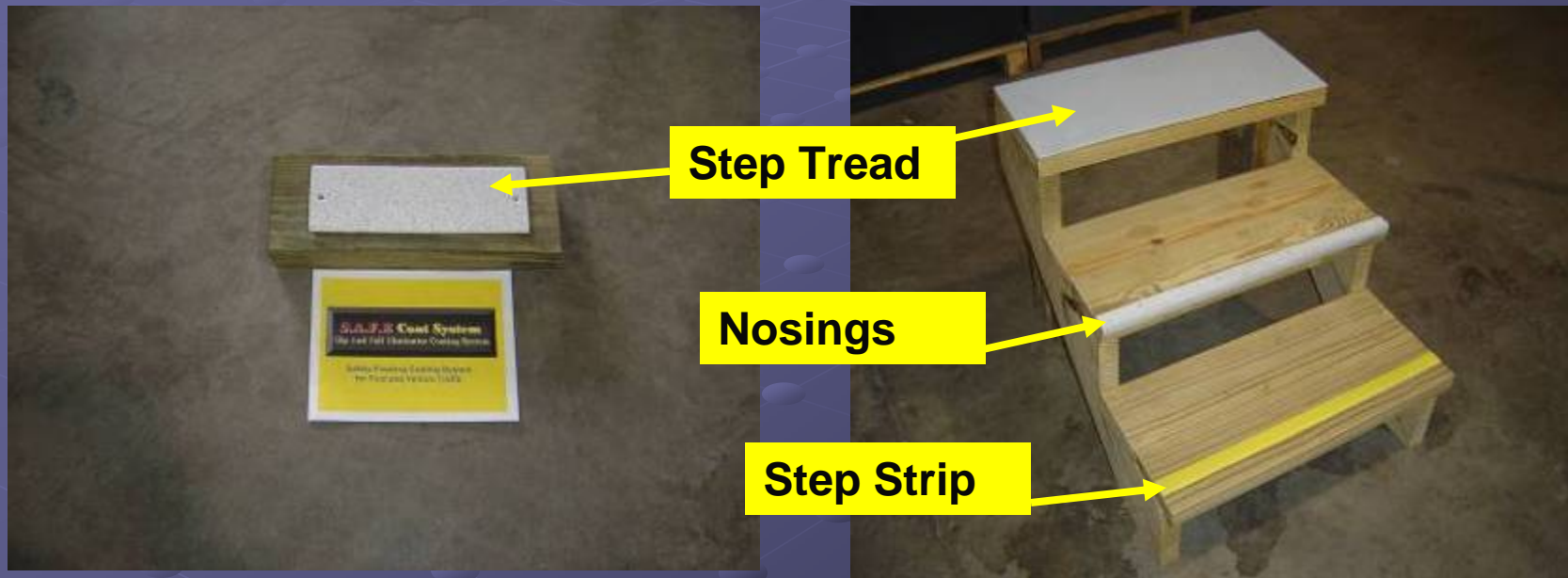
Product Types – Grip Plates



- Customized panels are sized to your exact specifications!
- Direct spray option also available.
- Typical panel sizes range in 2ft x 6ft to 4ft x 8 ft
- Sealer Coat allows for wide range of colors

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Product Types – Treads/Nosings



- Customized treads are sized to your exact specifications!
- Direct spray option also available.
- Treads/nosings are easy to install – screws or weld
- Sealer Coat allows for wide range of colors

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Additional Products

Shop Floors



Ramps



Vault Covers



- Gratings and road plates
- Vault and manhole covers
- Ladder Rungs
- Expanded Metal
- Bridge walks/ safety ramps

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Industrial Applications

- Wet/slippery environments
- Ship builders/shipboard use
- Oil platforms
- Machine shops
- Automotive plants
- Petrochemical facilities
- Water treatment facilities
- Power plants
- Food processors (i.e. vegetable, meat, baking)
- **Platforms**
- **Stair treads**
- **Walkways**
- **Flooring/Floor boards**
- Mass Transit
- **Automotive shops**
- Assembly lines
- Fire/Emergency Apparatus
- Vault Covers
- Inclined ramps/docks
- Ladder rungs/covers
- Trench covers



Success Story:

85-15 Zinc Aluminum on Bridges

- **Application**
- In 1974 the American Welding Society completed a 19 year study of corrosion protection afforded by wire metallized aluminium and zinc coatings applied to low carbon steel.
- 85-15 Zinc Aluminum Provides Best Overall Corrosion Protection
- Thermal Spray Coating Considered Sacrificial Anodic to Steel Structure
- 50 Year Life
- Bridge Life Cycle Extended to 100 year life
- Life Cycle Cost Extended with Thermal Spray Coating
- No VOC Issues with Thermal Spray Coatings



Bridges in North America

that have been coated using 85-15 Zinc Aluminum

Bridge	Year Installed	Area (ft ²)	Anode material	Thickness, mm (mils)
Cape Creek Bridge	1991	102,500	TS Zn	0.51 (20)
Yaquina Bay Bridge - arches	1994	195,500	TS Zn	0.57 (22.6)
Depoe Bay Bridge	1995	63,960	TS Zn	0.55 (21.7)
Yaquina Bay Bridge - south approach	1997	65,000	TS Zn	0.51 (20)
Cape Perpetua Viaduct	1997	607	TS Zn	0.50 (19.7)
Big Creek Bridge	1998	20,026	TS Zn	0.38 (15)
Rocky Creek (Ben Jones) Bridge	2001	40,000	TS Zn	0.38 (15)
Cummins Creek	2001	20,000	TS Zn	0.38 (15)
Rogue River (Patterson) Bridge	2003	350,000	TS Zn	0.38 (15)
Yaquina Bay Bridge – north approach	1986	6910	C paint	0.50 (20) dft ¹
Depoe Bay Bridge	1995	3015	TS Ti	0.10 (4)
Cape Perpetua Viaduct	1997	610	TS AlZnIn	0.40 (15.8)
Cape Perpetua Viaduct	1997	610	Zn hydrogel	0.25 (10)
TOTAL installed area		873,780		



Process for Application

- **Equipment:** Twin Wire Electric Arc Spray
- **Spray Process:** A pair of wires are electrically energized so that an arc is struck across the tips when brought together through a pistol. Compressed air is blown across the arc to atomize and propel the auto-fed metal wire particles onto the prepared work piece.
- **Wire:** 1/8 inch to 3/16 inch, solid wire, 85% Zinc 15% Aluminum
- **Deposition Rates:**
 - ✓ 20 to 50 pounds per hour
 - ✓ 0.1 to 0.25 pounds per square foot
 - ✓ Up to 325 square feet per hour
 - ✓ Deposition Efficiency: 70%



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CONTACT INFORMATION

- Sales Manager: Steve Swartz
- E-mail: steve@newagestudwelding.com
- Phone: 888-889-3833
- Fax: 856-218-3805
- Office Location:
 - 2 Enterprise Court
 - Sewell, NJ 08080