

E08

elements™



environmentally responsible
maintenance solutions



Zinc Free Floor Finish

pulimento de piso

An environmentally preferable Zinc-free floor seal and finish formulated with the most advanced polymer technology. Meets today's need for a product that contains no zinc or other heavy metals that can be harmful to wastewater treatment systems. This low odor finish has exceptional durability and flexibility and can be maintained with scrub and recoat procedures, spray buffing or high speed burnishing. Can be used to protect synthetic floors.



FLOOR COATING AND FINISHING MATERIAL
AS TO SLIP RESISTANCE ONLY
17SU



Certified Hard Floor Care Product CCD-147

ENVIRONMENTALLY RESPONSIBLE COMPARISON

Traditional Products	elements
Zinc cross-linked acrylic and modified-acrylic emulsion polymer	None
Formaldehyde	None
	Zinc-free cross-linked polymers
	1,2-benzisothiazoline-3-one
Traditional Compound Descriptions:	elements Compound Descriptions:
<p>Zinc cross-linked acrylic and modified-acrylic emulsion polymer – is used as a binder in floor finish and sealers. Trace amount of zinc may cause problems with toxicity of sewage effluent and meeting discharge permit requirement.</p> <p>Formaldehyde – is commonly used as a preservative in coatings as well as detergents. However, it is a suspect carcinogen.</p>	<p>Zinc-free cross-linked polymers – is used as a binder in floor finish and sealers. It reduces toxicity of sewage effluent.</p> <p>1,2-benzisothiazoline-3-one – is an efficient microbiostat preservative for aqueous compositions such as floor finish and sealers. Low corrosivity and low odor. It is not suspected carcinogens.</p>

PRODUCT SPECIFICATIONS

Non-volatile Solids:	20.0 ± 0.5%	Buffability:	Spray buffing or high speed burnishing
Color:	Milky emulsion	Removability:	With instant type strippers
Odor:	Low	Detergent Resistance:	Excellent
pH:	8.0 – 9.0	VOC Content:	0.34 lbs./gal.
Dry/Recoat Time:	45 minutes min.	Storage/Stability:	1 year
Slip Resistance:	0.5 min. by ASTM-D2047	Weight Per Gallon:	8.50 lbs./gal.
Durability:	Excellent	Freeze/Thaw Stability:	Keep from freezing

Misco Products Corporation • Reading, PA • (800) 548-4568 FAX (610) 926-1194

www.miscoprod.com

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation	Product Name: Zinc-Free Floor Finish Generic Name: Floor Finish Chemical Family: Acrylic Wax Blend Formula: Proprietary	Supplier's Name:
Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605		Supplier's Address:
Manufacturer's Phone #: (610) 926-4106		Supplier's Phone #:

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Zinc-Free Acrylic Copolymer Dispersion	N/A	45 to 50			
Modified Propylene Copolymer	25722-45-6	0 to 5			
Oxidized Polyethylene	68441-17-8	0 to 5			
Tributoxyethyl Phosphate	78-51-3	0 to 5			
Diethylene Glycol Ethyl Ether	111-90-0	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212 F.	Specific Gravity: 1.020
Vapor Pressure: <20mm Hg @ 68 F.	Vapor Density (Air=1): =1
% Volatile: 75+	pH: 8.0 – 9.0
Solubility in Water: Complete	Evaporation Rate (Water=1): <1
Physical Description: Thin milky liquid with characteristic odor.	
VOC Content (% wt.): 0.34 lbs./gal.	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None	Lower Explosion Limit: N/A
Upper Explosion Limit: N/A	Extinguishing Media: N/A
Special Firefighting Procedures: Non Flammable	
Unusual Fire and Explosion Hazards: N/A	

SECTION 5-REACTIVITY DATA

Stability: Stable	Hazardous Polymerization: None
Hazards Decomposition Products: Will not occur	Incompatibility (Materials to Avoid): None

SECTION 6-STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Keep unauthorized personnel away when applying to floor. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of vapors. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: Prolonged or repeated contact may cause dermatitis.
Eyes: Eye irritant. May cause redness or swelling.
Inhalation: Prolonged exposure may cause dizziness, headache, nausea.
Ingestion: May be irritating to the mouth, throat, and gastrointestinal system.
 Vomiting and diarrhea expected with large doses.

First Aid Procedures:

Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention.
Inhalation: Remove victim to fresh air and monitor. Seek medical attention if symptoms persist.
Ingestion: Dilute with 2 glasses of water. Seek medical attention if symptoms persist.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use in well-ventilated areas only.
Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: Rubber or chemical resistant.
Eye Protection: Safety glasses or chemical splash goggles
Other Protective Equipment: Chemical resistant footwear e.g. rubber boots to protect feet. Long pants to protect legs.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.
Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before offering for recycling.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:	Shipping Information:	HMIS Hazardous Materials Identification System
No - Fire Hazard	FOR CONTAINERS > 1 Gallon : Liquid Floor Wax	Health 1
No - Sudden Release of Pressure Hazard		Flammability 0
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS : Liquid Floor Wax	Reactivity 0
Yes - Immediate (acute) Health Hazard		Personal Protection A
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON : Liquid Floor Wax	

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	None	

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product