



Maintenance Solutions



Crystal Cote 350

VOC Compliant Polyurethane Wood Finish

FOR USE ON:

- Sealed Wood
- Sealed Concrete
- Sealed Cork
- Parquet Floors

DESCRIPTION

An oil modified polyurethane finish designed for use on sports, commercial and residential wood floors. Produces outstanding durability and resistance to scuffs, spills and stains. Leaves surface with an extremely rich high gloss that dirt and grime can't possibly penetrate. This product meets the strict VOC (Volatile Organic Compounds) requirements, which have been established in many states throughout the country. Easy to apply, it is compatible over a wide variety of conventional solvent-based coatings (provided these coatings are cured, bonded and the floor is properly prepared).

Manufacturer's Recommendation: This coating is to be applied without thinning. VOC Content < 350 grams/liter

DIRECTIONS

On Previously coated floors

A test patch is strongly recommended to determine adhesion compatibility over a previous finish/sealer.

1. Remove any masking tape or gum with a putty knife. Clean the floor of dirt, dust mop treatments, etc with a neutral cleaner.
 2. Allow the floor to dry thoroughly.
 3. Screen the floors with #100 grit screens (250 sq. ft per side; 23m2) until the gloss is removed.
 4. Tack rag the floor using waterless cleaner.
 5. With a conventional lambs wool or foam applicator or weighted T-bar applicator, apply finish going with the grain. Do not allow the finish to puddle.
 6. Allow over night cure (16 hrs min. 36 hrs max.) before recoating. Finish with a second coat of finish.
 7. Allow 48 hours cure before light traffic and 5 - 7 days before athletic activities.
- Adequate ventilation is imperative during the curing process. Dry times will vary based upon the drying conditions. Do not apply when temperature is above 95° F (35°C) or below 65° F (18°C), or when humidity is above 80%. Clean up with waterless cleaner.

Newly installed floors or sanded to bare wood

1. Screen the floor using #100 grit screens (250 sq. ft per side, 23m2).
2. Vacuum, then tack rag the floor with waterless cleaner.
3. Allow the floor to dry to a dull, glossless surface.

Seal coat application

1. With a conventional lambswool or foam applicator or weighted T-bar, seal the bare wood with a quality polyurethane sealer. Minimum of two coats of sealer is recommended. Following the directions for that product. Allow to dry thoroughly.
2. Remove raised grain with a #120 grit screen, then tack rag with waterless cleaner.
3. Line marking paint can then applied.

Finish coats application

1. With a conventional lambs wool or foam applicator or weighted T-bar applicator, apply finish going with the grain. Do not allow the finish to puddle.
2. Allow over night cure (16 hrs min. 36 hrs max.) before recoating. Finish with a second coat of finish.
3. Allow 48 hours cure before light traffic and 5 - 7 days before athletic activities. Adequate ventilation is imperative during the curing process. Dry times will vary based upon the drying conditions. Do not apply when temperature is above 95° F (35°C) or below 65° F (18°C), or when humidity is above 80%. Clean up with waterless cleaner.



Wood Floor Care

PRODUCT SPECIFICATIONS

Non-volatile solids:	50±1%	Chemical Resistance:	Excellent
Gardner Color:	(Typical).....6 (Maximum).....8	Removability:	With conventional urethane strippers
Odor:	Petroleum Distillates	Drying Properties:	Recoat - 16-36 hrs. Dry hard - 48 hrs.
Type:	Oil modified urethane	Recoatability:	Excellent (follow directions)
Solvent Systems:	Mineral spirits/Siloxane	Storage/Stability:	2 years
Flash Point:	105 F (TCC)	Freeze/Thaw Stability:	Stable
Viscosity:	A1-A	Weight per Gallon:	7.58 lbs./gal.
Slip Resistance:	Greater than 0.50	Coverage:	400 - 500 ft ² per gal.
Sward Hardness:	Greater than 30	VOC Content:	<350 gms/liter

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605 Manufacturer's Phone #: (610) 926-4106	Product Name: Crystal Cote 350 Generic Name: Polyurethane Wood Finish Chemical Family: Solvent Urethane Blend Formula: Proprietary	Supplier's Name: Supplier's Address: Supplier's Phone #:
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SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Mineral Spirits	64742-47-8	30 to 35	300 ppm	100 ppm	N/A
Regular Mineral Spirits	64741-41-9	10 to 15			
Oil Modified Urethane Resin	N/A	45 to 55			
Xylene	1330-20-7	1 to 5	100ppm	100ppm	150ppm
Ethylbenzene	100-41-4	0.1 to 1	100ppm	100ppm	125ppm

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 282 F. Initial
Vapor Pressure: 6 mm Hg @ 68 F.
% Volatile: 45+
Solubility in Water: Nil
Physical Description: Moderately viscous yellow liquid with characteristic solvent odor.
VOC Content (Subpart D §59.406): < 350 grams/liter

Specific Gravity: 0.91
Vapor Density (Air=1): 5.1
pH: N/A
Evaporation Rate (Water=1): 0.6

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 100°F. (TCC)
Upper Explosion Limit: 6.0% **Lower Explosion Limit:** 1.0%
Extinguishing Media: Foam, CO₂, dry chemical.
Special Firefighting Procedures: Do Not Use Water.
Unusual Fire and Explosion Hazards: Drums heated by fire can explode.

SECTION 5-REACTIVITY DATA

Stability: Stable
Hazardous Polymerization: May occur through oxidation, leading to exothermic reaction. Heat generated by oxidation may lead to spontaneous combustion of materials such as rags, paper towels, etc., used for clean-up
Hazards Decomposition Products: Carbon monoxide possible if burned. **Incompatibility (Materials to Avoid):** Strong oxidizers.

SECTION 6-STORAGE AND HANDLING INFORMATION

Combustible liquid. Avoid contact with heat, spark or open flame. Eye irritant. May cause skin irritation. 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. Wear rubber gloves when handling. Wear protective boots when applying to floors. 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 irritation, defatting, or dermatitis.
Eyes: Eye irritant. May cause redness, swelling, or blurred vision.
Inhalation: May be irritating to the nose, throat, and lungs. Prolonged breathing can cause headache, nausea, dizziness, weakness, and fatigue. Some reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.
Ingestion: Can cause irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea. Aspiration of material into the lungs can cause pneumonitis.
Other: May cause liver damage and/or kidney damage.
Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

First Aid Procedures:

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention.
Inhalation: Get to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.
Ingestion: Do not induce vomiting. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved hydrocarbon cartridge or self-contained apparatus when used in enclosed areas.
Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit. Open doors and windows when handling and during drying period.
Protective Gloves: Solvent proof rubber recommended.
Eye Protection: Safety glasses recommended.
Other Protective Equipment: Eye wash station should be available nearby. Protective clothing and footwear (rubber boots) when using on floors.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Shut off all ignition sources. Ventilate area well. 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. If discarded, this material and containers should be treated as hazardous waste based on the characteristic of ignitability as defined under federal RCRA regulations (40 CFR 261). Materials used to absorb product should be soaked in water-filled containers or rinsed with water prior to discarding in trash receptacles. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:

Yes - Fire Hazard
No - Sudden Release of Pressure Hazard
No - Reactivity Hazard
Yes - Immediate (acute) Health Hazard
Yes - Delayed (chronic) Health Hazard

Domestic Shipping Information:

FOR CONTAINERS > 1 Gallon : Floor Coating
FOR 1 GALLON CONTAINERS : Not Available in this size
FOR CONTAINERS < 1 GALLON : Not Available in this size

HMS Hazardous Materials Identification System

Health	2
Flammability	2
Reactivity	1
Personal Protection	D

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
1330-20-7	Xylene	1 - 5
100-41-4	Ethylbenzene	0.1 - 1.0

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
100-41-4	Ethylbenzene	0.1 - 1.0

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