



Maintenance Solutions

# Crystal Cote HS

**VOC Compliant  
Polyurethane  
Wood Finish**



**For Use On:**

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

**DESCRIPTION**

A high solids 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. High solids makes this product able to meet 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 and water-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 = 443 grams/liter

**DIRECTIONS**

**ON NEW OR NEWLY PREPARED FLOORS:** Use a good quality polyurethane sealer, following the directions for that product. Allow to dry thoroughly.

**ON NEWLY SEALED FLOORS:** Buff with a #120 abrasive screen. Clean surface thoroughly with a tack rag and waterless cleaner and allow to dry. Apply finish using a synthetic or lamb's wool applicator, pressure sprayer or gravity fed applicator. If more than one coat is desired, allow 6 to 8 hours dry time between coats. No screening is required if recoating is done within 24 hours. Allow 72 hours cure time before allowing any foot traffic on floors (no dances or similar events for at least one week).

**NOTE:** Best results are obtained with adequate ventilation and floor temperature above 60°F and below 95°F. Avoid direct drafts on floor while finishing.

**PRODUCT SPECIFICATIONS**

<b>Non-volatile solids:</b>	50.0±0.5%	<b>Removability:</b>	With conventional urethane strippers
<b>Gardner Color:</b>	(Typical).....4 (Maximum).....12	<b>Drying Properties:</b>	Set to touch - 1-2 hrs. Recoat - 6-8 hrs. Dry hard - 72 hrs.
<b>Odor:</b>	Solvent	<b>Recoatability:</b>	Excellent (follow directions)
<b>Type:</b>	Oil modified urethane	<b>VOC Content:</b>	443 gm/liter
<b>Solvent Systems:</b>	Mineral spirits	<b>Storage/Stability:</b>	2 years
<b>Flash Point:</b>	106° F (TCC)	<b>Freeze/Thaw Stability:</b>	Keep from freezing
<b>Viscosity:</b>	A-C, Gardner	<b>Weight per Gallon:</b>	7.45 lbs./gal.
<b>Slip Resistance:</b>	Greater than 0.50	<b>Coverage:</b>	400-500 ft <sup>2</sup> per gal.
<b>Sward Hardness:</b>	Greater than 30		
<b>Chemical Resistance:</b>	Excellent		

**Wood Floor Care**

## 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 HS**Generic Name:** Polyurethane Wood Finish**Chemical Family:** Solvent Urethane Blend**Formula:** Proprietary**Supplier's Name:****Supplier's Address:****Supplier's Phone #:**

## 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	50 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) :** < 450 grams/liter

**Specific Gravity:** 0.89**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, CO<sub>2</sub>, 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 &gt; 1 Gallon : Floor Coating

FOR 1 GALLON CONTAINERS : Not Available in this size

FOR CONTAINERS &lt; 1 GALLON : Not Available in this size

**HMS Hazardous Materials Identification System**

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>D</b>

**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