



# HI-SHINE

Urethane-fortified Floor Finish

## DESCRIPTION

**Hi-Shine** is an extremely durable floor finish designed to save time and money. **Hi-Shine** is a combination of urethane and polymers that deliver a rich, water clear gloss to bring out a floor's natural beauty without hiding under a thick, wax barrier.

**Hi-Shine** is a versatile floor finish that can be applied on a variety of floors such as linoleum, vinyl, vinyl asbestos, tile, marble, concrete, marmoleum and even sealed wood. It can be used alone or in conjunction with a high-quality sealer such as *Holdout®*, and can be applied directly on top of most other finishes. **Hi-Shine** readily responds to high speed burnishing, however some users simply top coat with a thin layer of **Hi-Shine** to forgo burnishing.

**Hi-Shine** is recommended for schools, restaurants and other high traffic areas that require great gloss and great durability. It does not yellow and can withstand high traffic wear and the abrasiveness of high speed burnishing equipment so your floor shines bright and clear for a long, long time.

## DIRECTIONS

### Preparation:

Strip the floor with #1 Remover then pick up spent solution with a mop or wet-vac making sure solution does not dry. Rinse floor with *NeutraMax* as per label instructions.

### Application:

1. Use a clean finish mop, either fine string or candy striped. Pre-wet with water and wring out mop to conserve finish. 2. Apply 2-3 even coats of **Hi-Shine**. More may be required if you have an un-sealed, porous floor or need a good base to propane burnish. 3. Immerse mop in finish. Do not wring your mop but press firmly into wringer to remove excess finish.

### Maintenance:

1. Dust floor with treated dust mop. 2. Clean floor by damp mopping or autoscrubber using Maxim's neutral detergent, *NeutraMax*, as per label instructions. 3. Spray buff with *Armor-Ace* or burnish as desired. *Armor-Ace* may be used to enhance the gloss by applying before burnishing. Or use a thin topcoat of **Hi-Shine** as necessary to restore your floor to its original, glossy shine.

### Burnishing:

Those who burnish **Hi-Shine** generally use a medium synthetic pad - either champagne or aqua.

## PHYSICAL DATA

Solids	20%
Drying Time	15-20 minutes
Coverage	3, 000 square feet per US gallon
Slip Resistance	Passes ASTM D2047
Performance	Excellent Leveling, Scrubability, Black Mark Resistance and Removability

Durable. Reliable. Long lasting. Commercial floor finish.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **HI SHINE**

Product Use: *Floor Finish.*

WHMIS CODE: D2B  
 Proper Shipping Name: N/A  
 Hazard Class: N/A  
 UN Number: N/A  
 HS Tariff Classification Number: 3404.90 (prepared waxes)

HMIS	
1	Health
0	Flammability
0	Reactivity
B	Personal

A=Goggles, B=Goggles & Gloves  
 C=Goggles, Gloves and Apron

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 1607 Derwent Way  
 Delta, BC V3M 6K8, Canada  
 Phone: (604) 526-5655

**EMERGENCY PHONE**  
 Canada: Canutec 613-996-6666  
 U.S.A.: Chemtrec 800-424-9300

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

## SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
<b>DIPROPYLENE GLYCOL METHYL ETHER</b>	34590-94-8	1.0-5.0	100 ppm	100 ppm
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986.				
LD50	5430 mg/kg			
LD50	9500 mg/kg			
LC50	N/A			
<b>DIETHYLENE GLYCOL MONOETHYL ETHER</b>	111-90-0	1.0-5.0	N/E	N/E
The above item is reported per 40 CFR 372, Section 313 of Emergency Planning and Community Right to Know Act of 1986.				
LD50 (Oral-Rat)	5540 mg/kg			
LD50 (Dermal-Rat)	6000 ml/kg			
LC50	No Data			

## SECTION 3 – PHYSICAL DATA

<b>Color and Odor:</b> Milky white, characteristic odour.	<b>Boiling Point:</b> N/D	<b>Vapor Pressure (mm HG):</b> N/D	<b>pH:</b> 8.0 – 9.0
<b>Physical State:</b> Liquid.	<b>Melting Point:</b> N/A	<b>Vapor Density:</b> N/D	<b>Specific Gravity:</b> 1.03 @ 20°C
<b>Coef. Water/Oil Dist:</b> Greater than 1.0	<b>Evaporation Rate:</b> N/D	<b>Solubility in Water:</b> Soluble	<b>Odor Threshold:</b> No Data

## SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point and Method:</b> None to 100°C	<b>Sensitivity to Mechanical Impact:</b> None.	<b>Extinguishing Media:</b> Not flammable.
<b>Flammable Limits:</b> None known.	<b>Sensitivity to Static Discharge:</b> None.	<b>Auto ignition Temperature:</b> None known.
<b>Unusual Fire and Explosion Hazards:</b> None.		<b>Conditions of Flammability:</b> None.

**Hazardous Combustion Products:** Decomposition may produce carbon oxides and/or acrylic monomers.  
**Special Fire Fighting:** Wear NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situation. Use water spray to cool all nearby fire exposed surfaces.

## SECTION 5 – REACTIVITY DATA

**Chemical Stability:** Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.  
**Incompatibility (material to avoid):** Strong acids, alkalis, heavy metal salts and oxidizing agents.  
**Hazardous Decomposition Products:** Carbon oxides and acrylic monomer fumes upon thermal decomposition.

## SECTION 6 – TOXICOLOGICAL DATA

<b>Exposure Limits:</b> See Section 2 under Hazardous Ingredient.	<b>Routes of Entry:</b> Skin, eyes, inhalation.
<b>Irritancy of Product:</b> May be irritating to skin and eyes.	<b>Carcinogenicity:</b> None known.
<b>Sensitization:</b> None known.	<b>Mutagenicity:</b> None known.
<b>Teratogenicity:</b> None known.	<b>Reproductive Toxicity:</b> None known.

**Name of Toxicological Synergistic Product:** None known.  
**Effects of Chronic Exposure:** Prolonged or repeated exposure may cause skin irritation or dermatitis.  
**Effects of Acute Exposure to Product:** Product exposure may irritate skin and eyes. Prolonged inhalation of vapors or mists may irritate respiratory system. Ingestion may cause gastro-intestinal and abdominal discomfort.

## SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

**Respiratory Protection:** Not required for normal use of product.  
**Ventilation:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Protective Gloves:** Not required for normal use of product. Use Butyl rubber or Neoprene gloves when handling directly.  
**Eye Protection:** Normally not required. However, Chemical goggles or safety glasses when eye contact may occur.  
**Protective Clothing and Equipment:** Long sleeve coveralls. Eye wash recommended in the immediate work area.  
**Storage and Handling Procedures:** Use good Industrial hygiene. Avoid contact with skin, eyes and clothing. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with other chemicals. Store at temperatures below 30°C and keep from freezing.  
**Disposal Procedures for Spills or Leaks:** Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers.  
**Waste Disposal Method:** Reuse or neutralize with soda ash or sodium bicarbonate if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.  
**Special Shipping Information:** Store at temperature below Keep 30°C. Keep from freezing.

## SECTION 8 – EMERGENCY FIRST AID PROCEDURES

**First Aid:**  
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

## PREPARATION DATA