

REFLECTIONS 180

SUPER GLOSS FLOOR FINISH

REFLECTIONS 180 is the best choice for high-traffic areas such as schools, universities and public businesses. The everyday wear and tear that floors take can be brutal to the finish. **REFLECTIONS 180** will maximize the durability without sacrificing gloss. It leaves your floors with a deep wet look gloss long after they are dry. **REFLECTIONS 180** can be used with or without a UHS burnisher. With a UHS program, it gives superior burnishing response. Without a UHS program, your gloss levels will not be compromised as long as the floor is properly cleaned and maintained.

DIRECTIONS FOR USE

FLOOR PREPARATION:

1. Thoroughly strip floor with **HEAVY DUTY STRIPPER** according to directions.
2. After stripping, make sure floor is clean and residue free.

APPLICATION:

1. Using a clean mop bucket lined with a trash can liner to prevent contamination, pour **REFLECTIONS 180** into the mop bucket.
2. Using a clean rayon finish mop, saturate with finish. Place the mop in the wringer and tamp down to remove excess finish. Do not wring out.
3. Apply finish to the floor in thin to medium coats.
4. Allow each coat to dry a minimum of 20-30 minutes.
5. Apply multiple coats until desired gloss is achieved.

MAINTENANCE:

1. Dust mop entire floor surface.
2. Using a clean mop & bucket, mix a neutral pH cleaner.
3. Damp mop floor as needed. No rinsing required.

Reorder # RF 180

TECHNICAL DATA

Form:	Liquid
Color:	Milky White
Specific Gravity:	1.02
pH:	8.4 - 8.8
Nonvolatile Solids:	18% +/- 0.3%
Stability:	1 Year Min.
Density @ 75°F:	8.52 lbs./gal
Slip Resistance:	Meets ASTM D 2047

HMIS RATING

FLAMMABILITY	
0	
HEALTH	1
B	
PERSONAL PROTECTION	
0	
REACTIVITY	



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MATERIAL SAFETY DATA SHEET

Date Prepared: 04-07-06 By Charles D. Werner

SECTION 1 – PRODUCT INFORMATION			
Manufactured For: Sac Val Janitorial Sales & Service		Emergency Phone No: 1-800-228-5635 ext. 059	
Address: 2421 Del Monte Street W. Sacramento, CA			
Trade Name: REFLECTIONS 180		Product Type: Water based floor finish	
Product Code: FLFMFFWX		Formula:	
SECTION 2 – HAZARDOUS INGREDIENTS			
Chemical Name/Common Name:	CAS NO.	PERCENT (optional)	TLV (Source)
* Diethylene Glycol Monoethyl Ether	111-90-0	4	NE
Acrylic Polymers LD ₅₀ (oral-rat) > 5,000 mg/kg, LD ₅₀ (skin-rab) > 5,000 mg/kg		20 – 40	NE
Wax emulsions		< 10	NE
Tributoxyethyl Phosphate LD ₅₀ (oral-rat) 500-5000 mg/kg (rat), LD ₅₀ (skin-rab) >10 g/kg	78-51-3	1-2	NE
* Indicates toxic chemical subject to the reporting requirements of section 313 of title III and of 40 CFR 372			
SECTION 3 – PHYSICAL DATA			
Boiling Point: (F) approx. 212 F (100 C) Freeze Point 32 F (0 C)		Specific Gravity: (H ₂ O = 1.0) 1.0	pH: 8.5 -9.0
Vapor Pressure: (mm/Hg) 18 mm/Hg		Vapor Density: Heavier than air	
Solubility in Water: Completely miscible		Coefficient of water/oil: Not available	
Evaporation Rate (Vs ether) slower than ether			
Appearance and Odor: Milky white, non-viscous liquid, faint sweet ammonia odor.		Odor threshold: Not available	
SECTION 4 – FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.): NONE		Flammable Limits Upper N/A	Lower N/A
Extinguishing Media: water Fog.			
Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus and full protective clothing. Use Water spray to cool nearby containers and structures exposed to fire.			
Unusual Fire and Explosion Hazards: None.			
SECTION 5 – REACTIVE DATA			
Stability: Stable		Incompatibility: Strong oxidizers, acids.	
Hazardous Decomposition Products: May liberate carbon dioxide, and carbon monoxide			
SECTION 6- HEALTH HAZARDS			
Threshold Limit Value - Product (See Section 2 for Ingredient TLV)		None Established	
Primary Routes of Exposure: Eye - yes		Skin-Not Established	Oral-yes
		Inhalation-yes	Other
Signs and Symptoms of Over-exposure (Acute): EYES: Vapors and mists may irritate the eyes. INHALATION: Undiluted vapors and mists may irritating to the nose, throat. Prolonged inhalation of higher concentrations may cause headaches. SKIN: No irritation is likely after brief contact, but may be irritating after prolonged contact.			
Signs and Symptoms of Over-exposure (Chronic): In animals, overexposure to Diethylene Glycol Monoethyl Ether has shown effects on the kidneys.			
Medical Conditions Aggravated by Over-exposure: Persons with pre-existing skin disorders, eye problems, impaired respiratory function may more susceptible to effects.			
Carcinogen or Suspect Carcinogen Ingredients: NTP - NO		IARC - NO	OSHA - NO
		NONE	
SECTION 7 – EMERGENCY AND FIRST AID PROCEDURES			
Eyes: Flush with immediately with lots of running water for at least 15 minutes holding eyelids open. Get medical attention.			
Skin: Wash skin with soap and water. Remove contaminated clothing & shoes. Wash before reuse.			
Ingestion: If conscious, drink 2 glasses of water consult a physician immediately. Treat symptomatically. Do not give anything by mouth to an unconscious or convulsing person.			
Inhalation: Get to fresh air.			
SECTION 8 – SPECIAL PROTECTION INFORMATION			
Respiratory Protection: not normally required		Ventilation Requirements: Adequate ventilation required. Mechanical required if necessary to maintain exposure below PEL.	
Protective Gloves: Wear resistant gloves if excessive exposure is anticipated.		Eye Protection: Not normally required. Recommended if used overhead or misting or spraying.	
Other Protective Clothing: Where gross eye and skin contact may occur use and wear appropriate protective clothing, including resistant clothing, rubber boots with pants on the outside, and rubber gloves.			
SECTION 9 – SPILL OR LEAK PROCEDURES			
Steps to be Taken if Released or Spilled: For small spills, sweep and contain. For large spills, shovel and sweep up and contain. Rinse with water.			
Waste Disposal Methods: The contaminates of the product must be consider when disposing. Consult appropriate Federal, State and Local regulatory agencies to ascertain proper disposal procedures and comply with them.			
SECTION 10 – STORAGE AND HANDLING INFORMATION			
Precautions to be Taken in Handling and Storage: Store in a cool dry, well ventilated place away from incompatible materials. Keep container tightly closed when not in use. This product is non-hazardous for storage and transport according to DOT/TDG regulations.			