

PRODUCT DATA

FIRST STEP® SEALER

Water-based sealer that protects high traffic areas and old or porous floors from dirt, grime, water and stains. Provides a very durable foundation for high speed burnishing.

FEATURES

- Excellent for UHS maintenance programs
- Will not yellow or darken coating
- Detergent resistant
- Withstands repeated scrubbing



RECOMMENDED FLOOR SURFACES

All resilient tile flooring

PRODUCT DATA

Description:	Acrylic co-polymer emulsion
Appearance:	Milky white
Fragrance:	Mild acrylic
Coverage:	1500 sq ft per gal first coat (37 sq m per liter) 2500-3000 sq ft per gal on successive coats (61-74 sq m per liter)
Non-Volatile Solids:	18.0 ± 0.5%, ASTM D2834-95 (2001)
Detergent Resistance:	Excellent, ASTM D3207-92 (1996)e1
Removability:	Semi-permanent
Viscosity (Brookfield):	<10 centipoise @ 68°F (20°C)
Slip Resistance:	Meets ASTM D2047-99 requirements.
Drying time:	30-40 minutes
Shelf Life:	1 year, ASTM D1791-93 (1998)
Density:	8.6 lb per gal @ 68°F 1.03 kg per liter at 20°C
Freeze/Thaw:	Passes 3 cycles ASTM D3209-93 (1998)

PRECAUTIONS

Keep out of reach of children. Keep container sealed when not in use. Avoid freezing. If frozen, allow to return to room temperature slowly and then mix thoroughly before using.

ORDERING INFORMATION

Product #401FS:	2 x 2.50 gallon per case (2 x 9.5 liter)
Product #401MP:	4 x 1.06 gallon per case (4 x 4 liter)

DIRECTIONS FOR USE:

1. Strip floor with recommended floor stripper, stripping machine and pad or brushes manufactured by Amano Pioneer Eclipse. Rinse floor thoroughly with water and allow to dry.
2. Apply 2 layers of First Step Sealer with a clean rayon mop. Allow floor to dry between layers.
3. Apply recommended floor coating manufactured by Amano Pioneer Eclipse. Follow label instructions. Burnish as desired.
4. When stripping is necessary, remove with recommended floor stripper manufactured by Amano Pioneer Eclipse following the label instructions.

NOTE: To prevent contamination do not pour unused product from bucket into original container.

MATERIAL SAFETY DATA SHEET

FIRST STEP SEALER

LAST REVISION DATE: 11/26/07
MANUFACTURER: Amano Pioneer Eclipse® Corp.
 Sparta, NC 28675 Phone: 1-336-372-8080
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire,
 Exposure or Accident **CALL CHEMTREC - Day**
or Night 1-800-424-9300 Toll Free In the
 Continental US **483-7616** In DISTRICT OF
 COLUMBIA. For calls originating outside the US:
 Call Collect **1-202-483-7616** Washington, DC.

SECTION I: GENERAL INFORMATION

PRODUCT NAME: First Step® Sealer
PRODUCT #: 401
PRODUCT CLASS: Acrylic co-polymer emulsion
CAS#: N/E
PRECAUTIONS: Possible skin and eye irritant.
 Keep container sealed when not in use. Keep out
 of reach of children.
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

NFPA HAZARD RATINGS

4-EXTREME 3-HIGH 2-MODERATE
 1-SLIGHT 0-INSIGNIFICANT



SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: * Diethylene glycol methyl ether
CAS#: 111-77-3
%: 1-3
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: 7.1 g/kg rat, oral,
 9.4 g/kg rabbit, skin

INGREDIENT: Dipropylene glycol
 monomethyl ether
CAS#: 34590-94-8
%: 1-3
OSHA PEL: 100 ppm (TWA) (skin)
ACGIH TLV: 100 ppm (TWA) 150 ppm (STEL) (skin)
LD₅₀ SPECIES & ROUTE: 5.4 g/kg rat, oral
 9.5 g/kg rabbit, skin

* This chemical is subject to the reporting
 requirements of Section 313 of SARA Title III.

N/E = Not Established, N/L = Not Listed
 N/A = Not Applicable

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Milky white liquid
pH: 8.5 ± 0.5
BOILING POINT: 100°C / 212°F
EVAPORATION RATE: Less than water
FREEZING POINT: 0°C / 32°F
VAPOR DENSITY: Less than air
VOLATILE BY WEIGHT: 82.0 ± 0.5%
VAPOR PRESSURE: Less than water
DENSITY: 8.6 lb per gal @ 68°F
 1.03 kg per liter @ 20°C
SOLUBILITY IN WATER: Miscible

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible
EXPLOSIVE LIMITS:
 LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: None
HAZARDOUS COMBUSTIBLE PRODUCTS: None
UNUSUAL FIRE AND EXPLOSION HAZARDS:
 Materials can splatter above 100°C / 212°F.

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS: N/A
REACTIVITY CONDITIONS: None

SECTION VI: HEALTH HAZARD DATA

EYES: Slightly irritating to eyes. For eye contact,
 flush with a large amount of water for at least
 15 minutes. See a physician if irritation persists.
SKIN: Irritating to skin upon repeated or
 prolonged contact. For skin contact, wash
 affected areas with soap and water.
INHALATION: Vapor or mist can cause headache,
 nausea and irritation of the eyes, nose, throat
 and lungs. For overexposure, move subject
 to fresh air.
INGESTION: Irritation to mouth, esophagus
 and stomach. If ingested, drink several
 glasses of water and do not induce vomiting.
 Seek medical attention.
**CHRONIC EFFECTS AND
 MEDICAL CONDITIONS AG
 GRAVATED BY OVEREXPOSURE:** Prolonged or
 repeated contact can cause drying, defatting and
 dermatitis to skin.
CARCINOGEN: Non-carcinogenic
REPRODUCTIVE EFFECTS: N/E
TERATOGENICITY: N/E
MUTAGENICITY: N/E
THRESHOLD LIMIT VALUE: See Section II.

SECTION VII: SPILL, LEAK & DISPOSAL PROCEDURES

SMALL SPILLS: Absorb spill with inert material
 (e.g. sand, earth) and dispose of as waste
 material in accordance with local, state and
 federal regulations.
LARGE SPILLS: Keep spectators away. Floors
 may be slippery; use care to avoid falling. Dike
 and contain spill with inert material (e.g. sand,
 earth). Transfer liquid to containers for recovery
 or disposal and solid diking material to separate
 containers for disposal. Keep spills and cleaning
 runoff out of sewers and open bodies of water.
WASTE DISPOSAL: Dispose of as waste
 material in accordance with local, state, and
 federal regulations.

SECTION VIII: SPECIAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)
EYES: None required under normal conditions of
 use. Safety glasses recommended.
SKIN: If prolonged or repeated contact is
 possible, chemical-resistant clothing (e.g., rubber
 gloves) is recommended.
RESPIRATORY: No respiratory protection is
 required if ventilation is adequate.

ENGINEERING CONTROLS: Good general room
 ventilation is expected to be adequate. Local
 exhaust ventilation (e.g., fans) may be necessary
 when general ventilation does not keep airborne
 concentrations below any exposure limits.

SECTION IX: SPECIAL PRECAUTIONS

HANDLING AND STORAGE:
 Storage temperature (MAX. 60°C / 140°F)
 (MIN. 1°C / 34°F)
OTHER PRECAUTIONS: Keep from freezing;
 product may coagulate.

SECTION X: ADDITIONAL INFORMATION

Neither this data sheet nor any statement
 contained herein grants or extends any license,
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This MSDS has been provided to you in accordance
 with the OSHA HAZARD COMMUNICATION STANDARD
 (29CFR1910.1200).

***IMPORTANT SAFETY INFORMATION
 DO NOT DISCARD***

PLEASE ROUTE TO COMPANY SAFETY OFFICER

Pioneer Eclipse®

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