

POWERSTAR® STAIN RESISTANT TOP SHIELD

High performance micro film-forming surface treatment that hardens and seals concrete. Creates a high performance, ultra-hard, watertight and dust-repelling surface.

FEATURES

- Reduces time and costs
- Easy application methods
- Forms a durable surface
- Does not support mildew or fungi growth



RECOMMENDED APPLICATIONS

Concrete

PRODUCT DATA

Appearance:	Milky white
Fragrance:	None added
pH:	11.0 ± 0.5 ASTM E70-97
Density:	9.2 lb per gal @ 68°F 1.11 kg per liter @ 20°C
Flash Point:	None
Freeze/Thaw:	Do not freeze
Shelf Life:	1 year

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; mix thoroughly before using.

ORDERING INFORMATION

Product #421GL5:	2 x 2.5 gallons per case (2 x 9.5 liters)
Product #421DR5:	55 gallons

DIRECTIONS FOR USE:

1. Sweep floor to remove all loose debris and soils such as polishing dust, curing compounds, drywall residue, etc.
2. Clean floor with a pH neutral cleaner using an automatic scrubber equipped with a black strip pad to remove sealers, oils, greases, etc.
3. Allow surface to dry thoroughly.
4. Apply PowerStar Stain Resistant Top Shield thinly and evenly on the floor using a pump-up sprayer at an approximate coverage rate of 2000 sq ft per gallon.

Note: DO NOT dilute PowerStar Top Shield.

Note: If too much Top Shield is applied, drying time will take longer and the coating may turn white.

5. Spread the Top Shield evenly on the floor using a clean micro-fiber applicator or lint free flat fiber mop pre-sprayed with Top Shield.
6. Allow floor to dry thoroughly before applying a second coat.

Note: Approximate drying time is 30-60 minutes depending on temperature, humidity, floor conditions and amount of Top Shield applied.
7. Do not allow pedestrian or wheeled traffic on the floor for at least 2 hours. Do not allow water on the floor for at least 24 hours.
8. Burnish floor using a Blue Blend Pad for enhanced gloss if desired.
9. Sweep floor regularly to remove loose debris and soils.
10. Scrub floor routinely with an automatic scrubber equipped with red cleaning pads using a pH neutral cleaner such as PowerStar EnviroStar Green All Purpose Cleaner.

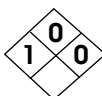
POWERSTAR STAIN RESISTANT TOP SHIELD

LAST REVISION DATE: 06/28/10
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: PowerStar® Stain Resistant
 Top Shield
PRODUCT #: 421
DESCRIPTION: Milky white liquid
PRECAUTIONS: Possible skin and eye irritant.
 Keep container sealed when not in use. Keep out
 of reach of children.
FLAMMABILITY: 0
REACTIVITY: 0
HEALTH: 1

NFPA HAZARD RATINGS
 4-EXTREME 3-HIGH 2-MODERATE
 1-SLIGHT 0-INSIGNIFICANT



SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT: Proprietary Ingredient A
CAS#: Not specified
%: 3-7
OSHA PEL: N/E
ACGIH TLV: 1 ppm (TWA)
LD₅₀ SPECIES & ROUTE: 16,540 mg/kg rat, oral
INGREDIENT: Proprietary Ingredient B
CAS#: Not specified
%: 1-5
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: 7460 mg/kg rat, oral
INGREDIENT: Proprietary Ingredient C
CAS#: Not specified
%: 1-5
OSHA PEL: N/E
ACGIH TLV: N/E
LD₅₀ SPECIES & ROUTE: N/E

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

SECTION III: PHYSICAL/CHEMICAL DATA

APPEARANCE: Milky white
pH: 11.0 ± 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: 97 ± 0.5%
VAPOR PRESSURE: Less than water
DENSITY: 9.2 lb per gal @ 68°F
 1.11 kg per liter @ 20°C
SOLUBILITY IN WATER: >95%

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT: Non-combustible
EXPLOSIVE LIMITS:
 LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: Carbon dioxide, water,
 water fog, dry chemical and chemical foam
SPECIAL FIRE FIGHTING PROCEDURES: Keep
 containers cool with water, spray to prevent
 container rupture due to steam build-up. Floor
 will be slippery if material is released. Material
 is alkaline and will irritate the eyes and skin if
 product is allowed in direct contact.
HAZARDOUS COMBUSTIBLE PRODUCTS: Smoke,
 fumes or vapors, oxides of carbon.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
 None

SECTION V: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY (MATERIALS TO AVOID):
 Strong acids and strong oxidizers.
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 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
AGGRAVATED BY OVEREXPOSURE: Prolonged or
 repeated contact can cause sensitization.
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,
 expressed or implied, in connection with patents
 issued or pending which may be the property
 of the manufacturer or others. The information
 in this data sheet has been assembled by the
 manufacturer based on its own studies and
 the work of others. The manufacturer makes
 no warranties, expressed or implied, as to the
 accuracy, completeness or adequacy of the
 information contained herein. The manufacturer
 shall not be liable (regardless of fault) or the
 vendee, the vendee's employees or anyone for
 any direct, special or consequential damages
 arising out of or in connection with the
 accuracy, completeness, adequacy or
 furnishing of such information.

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

