

511 Porous Plus

Natural Look Penetrating Sealer



Water, Stain & Slip Protection for

- GROUT
 - Flamed, Honed & Polished Limestone
 - Flamed, Honed & Polished Granite
 - Flamed, Honed & Polished Marble
 - Saitillo Tile
 - Sandstone
 - Concrete
 - Sanded GROUT
- Interior & Exterior
 - Kitchens
 - Restrooms
 - Garages
 - Paltos
 - Pool Areas
- Shows
 - Showers
 - Drive Ways
 - Walks
- Masonry
 - Terra Cotta Pavers
 - Porous Slate & Brick
 - Cantarel/Adoquin
 - Stucco
 - Cement
 - Flagstone

Uses

- Water Resistant
- Acid Resistant
- Slip Resistant
- Non Yellowing
- Stain Resistant
- Salt Resistant
- Easy To Use
- Non coating
- Weather Resistant
- Freezer/Thaw Resistant
- Low Toxicity
- U.V. Transparent

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. This product is formulated for sealing concrete and masonry to provide resistance against water, alkalis, acids, ultraviolet light, staining, salt ion intrusion and freeze/thaw damage. 511 Porous Plus is a unique formula-tion designed for the protection of all porous tile, stone and grout surfaces. 511 Porous Plus penetrates into the surface and forms an invisible barrier that is resistant to moisture and stains, while allowing vapor to escape. 511 Porous Plus is not a surface coating and will not alter the natural look. All surfaces are harder and less slippery. 511 Porous Plus can be used on interior and exterior applications. 511 Porous Plus is U.V. transparent, resists acid rain and will not yellow under any circumstances. 511 Porous Plus averages 2 to 10 times the coverage of competitive products. (See coverage chart). 511 has been formulated for or applied to freshly poured concrete to retard the evaporation of water.

511 Porous Plus is on the approved sources list of the United States Postal Service and is U.S.O.A. approved for incidental food contact in federal meat and poultry establishments.

Test Data

Independent laboratory tests show 511 Porous Plus out performs competitive products. Test results are available upon request for Staining, Static Coefficient of Friction, Labor Abrasion, Surface Absorption, Freeze/Thaw, and Vapor Transmission.

NOTE: For any questions concerning grout - refer to the grout manufacturers specifications. 511 Porous Plus will not stop acid etching.

Sample Testing

Due to the differences of each substrate, several inconspicuous test patches should be completed to assure maximum performance. User must determine suitability of the product for their intended use.

Color and Gloss Enhancement

For added color with "Textured and Non polished" surfaces, 511 Seal & Enhance or Mira Matte can be used. For polished marble, travertine, limestone and granite, Stone Polish, Mira Dust, Marble Conditioner, Mira Polish or Granite Brile may be used as directed. For ceramic tile, Tile Restor or Tile Brile may be used as directed.

Protect Neighboring Surfaces

Always protect neighboring surfaces including wood, carpet, metal, landscaping and other non masonry surfaces.

NEW INSTALLATIONS - APPLICATION INSTRUCTIONS

Read entire label and PDS/MSDS before using. 511 Porous Plus should not be diluted or thinned in any way. 511 Porous Plus should be used as is direct from approved container.

Sealing As a Grout Release

Apply 511 Porous Plus to all surfaces prior to grouting. This step will allow quick and easy cleanup after grouting. Grout can stain many surfaces if this procedure is not used prior to the grouting process. Apply 511 Porous Plus using a Mira Brush or a clean towel. Apply enough to wet the surface. (See coverage charts) Be careful not to saturate the open grout joints. Allow 511 Porous Plus to stand for approximately 3-5 minutes for maximum penetration. Any excess sealer remaining at this time should be removed by wiping the surface with a clean dry towel. On very porous surfaces apply another application after the previous application has dried 2-3 hours. Any excess sealer that has dried on the surface creating a residue/film, may be removed by applying Residue Remover. Apply Residue Remover undiluted to the affected area with a clean dry towel. Let it sit for 1-2 minutes before buffing the area with a second clean dry towel. Allow 511 Porous Plus to cure for 12-24 hours before continuing with the grouting procedure per manufacturers specification.

After Grouting: Once grouted, make sure that all grout residue is removed from the surface with a clean sponge and water. Allow grout to dry at least 24 - 72 hours.

If grout clean up is not performed effectively, an additional cleaning may be necessary to remove remaining grout residue or haze. For this procedure use Phosphoric Acid Cleaner, (GCFR) Grout & Concrete Film Remover (Hydrochloric Acid), Sulfamic Acid Crystals or Epoxy Grout Film Remover following the instructions carefully.

Grout Sealing

Once the area has completely dried, proceed with the sealing of the grout for water and stain resistance. Apply 511 Porous Plus to all grout with a paint brush. Any excess sealer that gets on the surface should be wiped off with a clean towel before it dries. On larger jobs grout can be sealed by retreating the entire area including the tile or stone surface a second time. Be careful not to allow the sealer to puddle or dry on presealed surfaces.

Residue Removal

To remove accumulated 511 Porous Plus residue, use Miracle Residue Remover as directed.

Existing Installation - Surface Preparation

Surface must be dry and free of contaminants, including previously applied sealers, dirt, lime & hard water deposits, efflorescence, rust & other heavy dirt and grime.

Floor Coating/Mex Removal: To remove existing coatings and/or waxes, use Mira Strip or H2O Strip following the instructions carefully.

Heavy Duty Cleaning: To remove lime and hard water deposits, efflorescence, rust, grease and other heavy dirt and grime use GCFR (Grout & Concrete Film Remover), Phosphoric Acid Cleaner as directed. For a non-acid deep clean use Liquid Poultice as directed. All strippers and/or cleaners should be thoroughly rinsed with clean water and the surface allowed to dry.

Sealing Existing Surfaces: Follow the application instructions previously mentioned, except now, seal the grout and tile or stone surfaces at the same time. When treating surfaces together, make sure that the recessed grout is saturated.

Light Cleaning: Use Mira Clean #1, Porcelain & Ceramic Tile Cleaner, Tile & Grout Cleaner, Mira Soap & Counter Kleen.

Mold, Mildew and Bacteria Sanitation

For best results in killing mold, mildew, bacteria and other micro organisms, use Mirade Disinfectant or Mirade Wipes as directed.

Sealer Cure Time

511 Porous Plus will be dry to the touch in 1 - 3 hours and may be used for normal foot traffic. For optimum results the area should be kept dry and free from staining materials for 24 - 72 hours.

Coverage Chart - used as directed

Material	Cost per sq./ft./sq.m.	500 sq.ft. 45 sq.m.	1000 sq.ft. 90 sq.m.	1500 sq.ft. 135 sq.m.	2000 sq.ft. 180 sq.m.
Sanded Grout	(.15 - .28)				
Limestone	(.15 - .28)				
Sandstone	(.15 - .45)				
Granite	(.15 - .28)				
Flag Stone	(.15 - .28)				
Flamed Granite	(.15 - .28)				
Flamed Marble	(.15 - .28)				
Textured Marble	(.15 - .28)				
Brick	(.15 - .45)				
Concrete	(.15 - .28)				
Succo	(.15 - .28)				
Slate	(.15 - .28)				
Terra Cotta	(.15 - .45)				
Cantarel/Adoquin	(.15 - .45)				
Masonry	(.15 - .45)				
Polished Stone		Cost per sq. ft./3000-4000 sq.ft. (.05 - .07)			

Cost per sq. ft. is based on a suggested list price of \$335/gallon. 1 gallon = 3.785 liters.

MAINTENANCE

For ongoing maintenance instructions please refer to Miracle Sealants Care Guide. Refer to the Miracle Sealants Product Recommendation Chart for specific product recommendations.

Storage

Store 511 Porous Plus in the original container, properly sealed to avoid contamination and solvent evaporation. Stored at 77° F (40° C), 511 Porous Plus will have a shelf life of 12 months.

Technical Support

For additional technical support, contact Miracle Sealants Company at 1-800-350-1901 or 626-443-6433 ext. 3013

Office Hours

Monday - Friday from 8:30 am - 5:00 pm PT
1-626-443-6433 1-800-350-1901 • Fax: 1-626-443-1435
website: www.miraclesealants.com

Product Damaged During Transportation

If product is damaged during transportation contact Info Trac @ 1-800-535-5053

Additional Products

Miracle Sealants Company offers a complete line of water & stain repellents, sealers, cleansers, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it-yourself spec-talist

511 Porous Plus

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Osha's Hazard Communication Standard**U.S. Department Of Labor**
 29 CFR 1910.1200 OMB No. 1218-0072
 Identity No: Name: 511 Porous Plus
Section 1

Manufacturers Name:	Miracle Sealants Company
Address:	12318 Lower Azusa Road
Emergency Phone:	800-350-1901
City:	Arcadia
State:	CA
Phone:	626-443-6433
Date Prepared	June 2007

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV
Petroleum Distillate	64741-65-7	100ppm	150ppm
Buyl/ Acetate	123-86-4	1500ppm	150ppm
N-Heptane	142-82-5	500ppm	400ppm
Ethyl Acetate	141-78-6	400ppm	400ppm

VOC: Less than or equal to 742 g/l

Section 3 - Physical/Chemical Characteristics

Boiling Point: 320° F	Specific Gravity: 0.80
Vapor Pressure: Not Tested	Melting Point: Not Tested
Vapor Density: Not Tested	Evaporation Rate: Not Tested
Solubility In Water: Insoluble	
Appearance and Odor: Colorless, Solvent Odor	

Section 4 - Fire And Explosion Hazard Data

Flash Point: 145° F	Flammable Limits: Not Tested
LEL: Not Tested	UEL: Not Tested
pH: Neutral	DOT#: Not Available
NFPA Hazard Rating H F R S (0-least, 4-Extreme): 1 2 0 0	

Extinguishing media: CO₂, Dry foam
 Special fire fighting procedures: Combustible - wear full bunker gear and NIOSH approved breathing apparatus.

Unusual fire and explosion hazards: cool exposed containers with water to prevent rupturing. Heat will cause phosgene gas.

Section 5 - Reactivity Data**Stability: Stable**

Conditions to avoid: Keep away from heat, flame & sparks
 Incompatible materials to avoid: Heat, flames, strong oxidizer
 Hazardous polymerization: None
 Hazardous decomposition product: CO₂, CO, HF

Section 6 - Health Hazard Data**Routes of Entry:**

Inhalation - Possible

Skin - Possible

Ingestion - Possible

Health hazards - Same as signs and symptoms of exposure

OSHA Carcinogenicity - None; NTP - None; IARC Monographs - None

Signs and Symptoms of Over Exposure

Eyes: Burning Irritation.

Skin: Slight Irritation, defatting of the skin. Material will place a clear coating onto skin.

Ingestion: Toxic

Inhalation: Irritation, dizziness, headaches - may cause CNS depression.
 Medical conditions aggravated: Same as signs and symptoms of over exposure.

WARRANTY & CAUTIONS**Warranty**

Instructions are a condensed guide and should not be considered complete. In the event of failure, the only obligation of Miracle Sealant Company shall be to replace such products proven to be defective. Before using, user shall determine the suitability of the product for their intended use. User assumes all risks and liability whatsoever in connection therein. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.

Symptoms can include but are not limited to irritation of respiratory track, dizziness and light headaches.

Emergency and First Aid Procedures:

Eyes: Flush with water for 15 minutes. If irritation persists, call physician.

Skin: Wash with soap and water. If irritation persists, call physician.

Ingestion: Do not induce vomiting. Call physician. Keep victim's head below hips to prevent aspiration.

Inhalation: Get person to fresh air. If unconscious, call a physician.

Section 7 - Precautions For Safe Handling And Use

Steps to be taken in case material is released or spilled: soak up with inert, absorbent material. Scoop up and place in a proper disposal container. Waste disposal method: dispose of in accordance with state and local regulations.

Precautions to be taken in handling and storing: store in a cool, dry place out of direct sunlight. Do not freeze or heat above 110° F

Other precautions: KEEP OUT OF REACH OF CHILDREN. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory protection: Ventilate by opening all doors and windows. If exposure above the TLV or PEL require a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required.

Ventilation

Local Exhaust - Recommended

Special - None
 Other - None

Mechanical - Recommended

Protective gloves: Rubber or plastic, chemical resistant.

Eye protection: Tight fitting, splash proof safety glasses or goggles.

Other protective clothing or equipment: Chemical resistant clothing.

Work hygienic practices: Wash hands thoroughly before handling food stuffs, liquids or tobacco products. Use common sense and care around chemicals. Never mix this product with other chemicals. Consult your supervisor for all other hygienic and safety practices. All practices depend on your specific business. Directions for use normally found on label which will dictate engineering and control measures.

Section 9 - Shipping & Regulatory Classification

DOT Shipping Name: Please refer to the Bill of Lading/receiving/documents for up-to-date information.

DOT Hazard Class: N/A

OSHA Hazard Class: N/A

UN/NA Number: N/A

EPA Hazard Waste: D 001, Ignitable

CPSC Classification: Combustible liquid

Transportation Class: 55

Toxic Substances Control Act (TSCA): This product and/or all the ingredients contained in this product have been registered under the Toxic Substances Control Act.

SARA: No SARA 313 chemicals identified.

NOTE: Miracle Sealants believes the data set forth are accurate. Miracle Sealants makes no warranty with respects thereto and disclaims all liability or reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.

Caution

511 Porous Plus contains combustible petroleum distillates. All solvents must be considered toxic and must be used in a well ventilated area. Good ventilation means that fresh air is flowing in such a way as to feel a slight breeze. Open windows and use fans to circulate air. Continue to ventilate until vapors are eliminated. Exposure to high vapor concentration must be avoided. Inhaling the vapors can be harmful. Keep away from heat and open flames. Avoid prolonged contact with skin. Chemical resistant gloves should be worn at all times. Keep small children and pets out of the area until product or surface has thoroughly dried. Refer to MSDS for additional information.