

511 Porous Plus

Natural Look Penetrating Sealer

Water, Stain & Slip Protection for

- | | |
|---|---|
| <input type="checkbox"/> Grout | <input type="checkbox"/> Flamed, Honed & Polished Limestone |
| <input type="checkbox"/> Flamed, Honed & Polished Granite | |
| <input type="checkbox"/> Flamed, Honed & Polished Marble | |
| <input type="checkbox"/> Saltillo Tile | <input type="checkbox"/> Terra Cotta Pavers |
| <input type="checkbox"/> Sandstone | <input type="checkbox"/> Porous Slate & Brick |
| <input type="checkbox"/> Concrete | <input type="checkbox"/> Cantera/Adoquin |
| <input type="checkbox"/> Sanded Grout | <input type="checkbox"/> Stucco |
| | <input type="checkbox"/> Masonry |
| | <input type="checkbox"/> Cement |
| | <input type="checkbox"/> Flagstone |

Uses

- | | | |
|--|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> Interior & Exterior | <input type="checkbox"/> Kitchens | <input type="checkbox"/> Showers |
| <input type="checkbox"/> Restrooms | <input type="checkbox"/> Patios | <input type="checkbox"/> Drive Ways |
| <input type="checkbox"/> Garages | <input type="checkbox"/> Pool Areas | <input type="checkbox"/> Walls |

Special Features

- | | | |
|--|--|--|
| <input type="checkbox"/> Water Resistant | <input type="checkbox"/> Stain Resistant | <input type="checkbox"/> Weather Resistant |
| <input type="checkbox"/> Acid Resistant | <input type="checkbox"/> Salt Resistant | <input type="checkbox"/> Freeze/Thaw Resistant |
| <input type="checkbox"/> Slip Resistant | <input type="checkbox"/> Easy To Use | <input type="checkbox"/> Low Toxicity |
| <input type="checkbox"/> Non Yellowing | <input type="checkbox"/> Non coating | <input type="checkbox"/> U.V. Transparent |

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. 511 Porous Plus is a unique formulation designed for the protection of the most 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 products have 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.

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, Tabor 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 may be used. For polished marble, travertine, limestone and granite, Stone Polish, Mira Dust, Marble Conditioner or Granite Brite may be used as directed. For ceramic tile, Tile Restor or Tile Brite may be used as directed.

Slip Resistance

511 Impregnator increases the static coefficient of friction on all surfaces.

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 6 - 12 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, (HDAC) Heavy Duty Acidic Cleaner (Hydrochloric Acid) 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/Wax Removal: To remove existing coatings and/or waxes, use Mira Strip or Finish Sealer Stripper following the instructions carefully.

Heavy Duty Cleaning: To remove lime and hard water deposits, efflorescence, rust, grease and other heavy dirt and grime use HDAC (Heavy Duty Acidic Cleaner) or 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 Tile & Stone Cleaner, Porcelain & Ceramic Tile Cleaner, Limestone/Travertine Soap & Counter Kleen 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	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				
Limestone				
Saltillo				
Sand Stone				
Flag Stone				
Flamed Granite				
Textured Marble				
Brick				
Concrete				
Stucco				
Slate				
Terra Cotta				
Cantera/Adoquin				
Masonry				
Polished Stone				

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 (25° 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, cleaners, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it-yourself specialist.

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.

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.



Safety Data Sheet

Issue Date: 01-Feb-2012

Revision Date: 21-Feb-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name 511 Porous Plus

Other means of identification

SDS # MSC-011

Product Code OMB No. 1218-0072

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet

Supplier Address

Miracle Sealants Company
12318 Lower Azusa Road
Arcadia, CA 91006

Emergency Telephone Number

Company Phone Number 1-626-443-6433 (Phone)
1-626-443-1435 (Fax)

24 Hour Emergency Phone Number 1-800-350-1901

Emergency Telephone (24 hr)

For product spills, leaks or exposures call:
Infotrac 1-800-535-5053 (North America) or 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless

Physical State Liquid

Odor Solvent

Classification

Acute toxicity - Inhalation (Vapors)	Category 3
Serious eye damage/eye irritation	Category 2
Aspiration toxicity	Category 1
Flammable Liquids	Category 4

Hazards Not Otherwise Classified (HNOC)

May be harmful in contact with skin
Causes mild skin irritation

Signal Word

Danger

Hazard Statements

Toxic if inhaled
Causes serious eye irritation
May be fatal if swallowed and enters airways
Combustible liquid

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Wear protective gloves/protective clothing/eye protection/face protection
 Keep cool

Precautionary Statements - Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do not induce vomiting
 IN CASE OF FIRE: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Petroleum Distillate	64742-88-7	Proprietary
N-Heptane	142-82-5	Proprietary
Ethyl acetate	141-78-6	Proprietary

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Product contains a proprietary mixture of ingredients.

4. FIRST-AID MEASURES

First Aid Measures

General Advice	Provide this SDS to medical personnel for treatment.
Eye Contact	Flush immediately with clean, free-flowing water for 15 minutes. Consult a physician if irritation persists.
Skin Contact	Wash off with soap and clean water for 15 minutes. If irritation persists call a physician.
Inhalation	Remove person to fresh air. If not breathing, administer artificial respiration including oxygen. Provide medical attention. Call a physician or poison control center immediately.
Ingestion	Do not induce vomiting. Call physician. Keep victim's head below hips to prevent aspiration.

Most important symptoms and effects

Symptoms	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.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Medical conditions generally aggravated by exposure- same as signs and symptoms of over exposure.
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5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

CO2, dry foam.

Unsuitable Extinguishing Media Not determined.**Specific Hazards Arising from the Chemical**

Product is combustible & may ignite if exposed to high temperature or direct flame. Heat will cause phosgene gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool exposed containers with water to prevent rupturing.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet.
Environmental Precautions	See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Steps to be taken in case material is released or spilled: soak up with inert absorbent material. Scoop up and place in a proper waste disposal container. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE**Precautions for safe handling**

Advice on Safe Handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Keep out of the reach of children. Wash face, hands, and any exposed skin thoroughly after handling. Wear eye/face protection. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid breathing vapors or mists. Use with adequate ventilation. Keep cool.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32°F or heat above 110°F. Store locked up.
Incompatible Materials	Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl acetate 141-78-6	TWA: 400 ppm	TWA: 400 ppm TWA: 1400 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1400 mg/m ³	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³
N-Heptane 142-82-5	STEL: 500 ppm TWA: 400 ppm	TWA: 500 ppm TWA: 2000 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 1600 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 2000 mg/m ³	IDLH: 750 ppm Ceiling: 440 ppm 15 min Ceiling: 1800 mg/m ³ 15 min TWA: 85 ppm TWA: 350 mg/m ³

Appropriate engineering controls

Engineering Controls Local exhaust: Recommended
 Mechanical exhaust: General ventilation system should be provided.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight fitting, splash proof safety goggles.

Skin and Body Protection Protective gloves: Plastic or rubber, chemical resistant
 Protective clothing or equipment: Chemical resistant clothing.

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.

General Hygiene Considerations Work hygienic practices: Wash hands thoroughly before handling foodstuffs, 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Solvent
Appearance	Colorless	Odor Threshold	Not determined
Color	Colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Neutral	
Melting Point/Freezing Point	Not tested	
Boiling Point/Boiling Range	> 320 °F / 160 °C	
Flash Point	62.77 °C / 145 °F	
Evaporation Rate	Not tested	
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not tested	
Lower Flammability Limit	Not tested	
Vapor Pressure	Not tested	
Vapor Density	Not tested	
Specific Gravity	0.80	
Water Solubility	None	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	

Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content	Less than or equal to 737 g/L

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Heat, flame & sparks.

Incompatible Materials

Strong oxidizers.

Hazardous Decomposition Products

CO₂, CO, HF.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Causes serious eye irritation.
Skin Contact	Causes mild skin irritation. May be harmful in contact with skin.
Inhalation	Toxic if inhaled.
Ingestion	May be fatal if swallowed and enters airways.

Component Information

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Legend

Aspiration hazard May be fatal if swallowed and enters airways.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Petroleum Distillate 64742-88-7	450: 96 h Pseudokirchneriella subcapitata mg/L EC50	800: 96 h Pimephales promelas mg/L LC50 static		100: 48 h Daphnia magna mg/L EC50
Ethyl acetate 141-78-6	3300: 48 h Desmodemus subspicatus mg/L EC50	220 - 250: 96 h Pimephales promelas mg/L LC50 flow- through 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h	560: 48 h Daphnia magna mg/L EC50 Static
N-Heptane 142-82-5		375.0: 96 h Cichlid fish mg/L LC50		10: 24 h Daphnia magna mg/L EC50

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
N-Heptane 142-82-5	4.66
Ethyl acetate 141-78-6	0.6

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethyl acetate 141-78-6		Included in waste stream: F039		U112

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
N-Heptane 142-82-5	Toxic Ignitable

Ethyl acetate 141-78-6	Toxic Ignitable
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14. TRANSPORT INFORMATION

Note DOT Ground: Combustible liquids are not regulated in non-bulk shipments per 49 CFR 173.150(f)(2).

DOT Not regulated (If shipped in NON BULK packaging by ground transport)

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethyl acetate 141-78-6	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

SARA 311/312 Hazard Categories

Acute Health Hazard Yes

Chronic Health Hazard Yes

Fire Hazard Yes

Sudden Release of Pressure Hazard No

Reactive Hazard No

SARA 313

Not determined

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Petroleum Distillate 64742-88-7	X		
Ethyl acetate 141-78-6	X	X	X

N-Heptane 142-82-5	X	X	X
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16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	2	0	None
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	2	0	Not determined

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 Revision Note: New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet