

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	
■ Saltillo Tile	■ Terra Cotta Pavers
■ Sandstone	■ Porous Slate & Brick
■ Concrete	■ Cantera/Adoquin
■ Sanded Grout	■ Stucco
	■ Masonry
	■ Cement
	■ Flagstone

Uses

■ Interior & Exterior	■ Kitchens	■ Showers
■ Restrooms	■ Patios	■ Drive Ways
■ Garages	■ Pool Areas	■ Walls

Special Features

■ Water Resistant	■ Stain Resistant	■ Weather Resistant
■ Acid Resistant	■ Salt Resistant	■ Freeze/Thaw Resistant
■ Slip Resistant	■ Easy To Use	■ Low Toxicity
■ Non Yellowing	■ Non coating	■ 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 SDS 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	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)				
Saltillo	(.15-.45)				
Sand Stone	(.15-.28)				
Flag Stone	(.15-.28)				
Flamed Granite	(.15-.28)				
Textured Marble	(.15-.28)				
Brick	(.15-.28)				
Concrete	(.15-.45)				
Stucco	(.22-.45)				
Slate	(.15-.28)				
Terra Cotta	(.15-.45)				
Cantera/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 \$240/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 (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



1. Identification

Product Name:	MS 511 POROUS PLUS QT 6PK	Revision Date:	2/24/2020
Product Identifier:	PLUSQT6	Supersedes Date:	5/14/2019
Recommended Use:	Penetrating Sealer		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		
Emergency Telephone:	24 Hour Hotline: 847-367-7700		

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word

Danger

Possible Hazards

15% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Flammable Liquid, category 3	H226	Flammable liquid and vapor.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
Aspiration Hazard, category 1	H304	May be fatal if swallowed and enters airways.
Skin Irritation, category 2	H315	Causes skin irritation.
Eye Irritation, category 2A	H319	Causes serious eye irritation.

GHS LABEL PRECAUTIONARY STATEMENTS

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378	In case of fire: Use alcohol film forming foam, carbon dioxide, dry chemical, dry sand to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local, regional and national regulations.
P201	Obtain special instructions before use.
P308+P313	IF exposed or concerned: Get medical advice/attention.

P405	Store locked up.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P264	Wash hands thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P321	For specific treatment see label.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

GHS SDS PRECAUTIONARY STATEMENTS

P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.

3. Composition / Information On Ingredients**HAZARDOUS SUBSTANCES**

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt.% Range</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Hydrotreated Light Distillate	64742-47-8	50-75	GHS08	H304
Naphtha, Hydrotreated Heavy	64742-48-9	10-25	GHS08	H304
n-Butyl Acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
3-Aminopropyltriethoxysilane	919-30-2	1.0-2.5	GHS05-GHS06	H302-314-331
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.0-2.5	GHS02-GHS07	H226-315-319-332
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-351-373
Stannane, dioctylbis[(1-oxododecyl)oxy]-	3648-18-8	<0.1	Not Available	Not Available

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards noted. Closed containers may explode when exposed to extreme heat due to buildup of steam. Keep containers tightly closed. Combustible liquid and vapor.

SPECIAL FIREFIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Avoid excess heat.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Hydrotreated Light Distillate	64742-47-8	75.0	N.E.	N.E.	N.E.	N.E.
Naphtha, Hydrotreated Heavy	64742-48-9	15.0	N.E.	N.E.	N.E.	N.E.
n-Butyl Acetate	123-86-4	5.0	50 ppm	150 ppm	150 ppm	N.E.
3-Aminopropyltriethoxysilane	919-30-2	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Stannane, dioctylbis[(1-oxododecyl)oxy]-	3648-18-8	0.1	0.1 mg/m3	0.2 mg/m3	0.1 mg/m3	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Liquid	Physical State:	Liquid
Odor:	Solvent Like	Odor Threshold:	N.E.
Specific Gravity:	0.815	pH:	N.A.
Freeze Point, °C:	N.D.	Viscosity:	N.D.
Solubility in Water:	Slight	Partition Coefficient, n-octanol/water:	N.D.
Decomposition Temp., °C:	N.D.	Explosive Limits, vol%:	0.7 - 17.5
Boiling Range, °C:	128 - 537	Flash Point, °C:	44
Flammability:	Supports Combustion	Auto-ignition Temp., °C:	N.D.
Evaporation Rate:	Slower than Ether	Vapor Pressure:	N.D.
Vapor Density:	Heavier than Air		

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: No Information

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Substance causes moderate eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to the nose, throat and respiratory tract. Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-48-9	Naphtha, Hydrotreated Heavy	>6000 mg/kg Rat	>3160 mg/kg Rabbit	N.E.
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
919-30-2	3-Aminopropyltriethoxysilane	1780 mg/kg Rat	4290 mg/kg Rabbit	>7.35 mg/L Rat
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
3648-18-8	Stannane, dioctylbis[(1-oxododecyl)oxy]-	6450 mg/kg Rat	N.E.	N.E.

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances.

14. Transport Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1263	1263	N.A.
Proper Shipping Name:	Not Regulated	Paint	Paint	Not Regulated
Hazard Class:	N.A.	3	3	N.A.
Packing Group:	N.A.	III	III	N.A.
Limited Quantity:	No	Yes	Yes	No

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Skin Corrosion or Irritation, Serious eye damage or eye irritation, Aspiration Hazard

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Xylenes (o-, m-, p- Isomers)	1330-20-7
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65:

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information**HMIS RATINGS**

Health: 2* Flammability: 2 Physical Hazard: 0 Personal Protection: X

NFPA RATINGS

Health: 2 Flammability: 2 Instability: 0

Volatile Organic Compounds 721 g/L

SDS REVISION DATE: 2/24/2020

REASON FOR REVISION: Revision Description Changed
 Product Composition Changed
 Substance and/or Product Properties Changed in Section(s):
 01 - Identification
 09 - Physical & Chemical Properties
 16 - Other Information
 Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.