

# 511 Anti-Slip Formula

**Water, Stain & Slip Protection for**

- Quarry Tile
- Glazed Tile
- Travertine
- Quartz
- Ceramic Tile
- Marble
- Slate
- Brick
- Porcelain Tile
- Granite
- Grout
- Terrazzo

**Uses**

- Interior & Exterior
- Restrooms
- Kitchen
- Patios
- Showers
- Drive Ways

**Special Features**

- Easy-to-Use
- Salt Resistant
- Acid Resistant
- Slip Resistant
- Anti Microbial Ingredient
- Weather Resistant
- Non Coating
- Non Yellowing
- U.V. Transparent
- Low Toxicity
- Freeze/Thaw Resistant
- Stain Resistant
- Water Resistant

**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 Anti-Slip Formula** is a unique polymerized silicone formulation designed for the protection of all medium to dense porous tile, stone and grout surfaces. **511 Anti-Slip Formula** penetrates into the surface and forms an invisible barrier that is resistant to moisture and stains, while allowing vapor to escape. **511 Anti-Slip Formula** is not a surface coating and will not alter the natural look. All surfaces are harder and less slippery. **511 Anti-Slip Formula** can be used on interior and exterior applications. **511 Anti-Slip Formula** is U.V. transparent, resists acid rain and will not yellow under any circumstances. **511 Anti-Slip Formula** averages five to twenty 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 Anti-Slip Formula** is on the approved sources list of the United States Postal Service and is U.S.D.A. approved for incidental food contact in federal meat and poultry establishments.

**Test Data**

Independent laboratory tests show **511 Anti-Slip Formula** out performs competitive products. Test results are available upon request for Staining, Static Coefficient of Friction, Tabor Abrasion, Surface Absorption, Freeze/Thaw, Vapor Transmission and Bacteria Repellency.

**NOTE:** On more porous surfaces use **511 Porous Plus** as directed. For any questions concerning grout refer to the grout manufacturers specifications. **511 Anti-Slip Formula** 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 Enhancement**

For added color with "TEXTURED AND NON POLISHED" surfaces, **511 Seal & Enhance** or **Mira Matte** may be applied as directed.

**Gloss Enhancement**

For a higher gloss finish on POLISHED stone surfaces, use **Water Ring & Etch Remover**, **Marble Conditioner**, **Mira Dust** or **Granite Brite**. For counters and furniture, use **Stone Polish**. For tile surfaces, try **Tile Brite**.

**Slip Resistance**

**511 Anti-Slip Formula** increases the static coefficient of friction on all surfaces. **511 Anti-Slip Formula** has been used successfully for compliance with the American Disability Act's recommendations for slip resistance (ASTM C 1028-89) on polished & honed 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 Anti-Slip Formula** should not be diluted or thinned in any way. **511 Anti-Slip Formula** should be used as is direct from approved container.

**Before Grouting:** Apply **511 Anti-Slip Formula** 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 Anti-Slip Formula** 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 Anti-Slip Formula** to stand for approximately 3 - 5 minutes for maximum penetration. All excess must be removed at this time by buffing surface with a clean dry towel. This is very important on polished, glazed and porcelain surfaces. Allow **511 Anti-Slip Formula** to cure for 6 - 12 hours before continuing with the grouting procedure.

**After Grouting:** Once grouted, make sure that all grout residue is removed from the surface with a clean sponge and water. Allow grout to cure per manufacturers specification. 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. Once the area has completely dried, proceed with the sealing of the grout for water and stain resistance. Apply **511 Anti-Slip Formula** 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 pre-sealed surfaces.

**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.

**Surface Coating/Wax Removal:** To remove existing coatings and/or waxes, use **Mira Strip** or **Finish Sealer Stripper** as directed.

**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 Powlitce** as directed.

Light Cleaning: Use **Tile & Stone Cleaner**, **Porcelain & Ceramic Tile Cleaner**, **Limestone/Travertine Soap**, **Counter Kleen** as directed.

**Existing Installation - Application Instructions**

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.

**Residue Removal**

To remove accumulated **511 Anti-Slip Formula** residue, use **Miracle Residue Remover** as directed.

**Color and Gloss Enhancement**

For color & gloss enhancement, use **Mira Matte** or **Mira Shine** as directed.

**Cure Time**

**511 Anti-Slip Formula** 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 72 hours.

**Coverage Chart - Used as directed**

	Cost per sq.ft./sq.m.	1000 sq.ft. 90 sq.m.	2000 sq.ft. 180 sq.m.	3000 sq.ft. 270 sq.m.	4000 sq.ft. 360 sq.m.
Sanded Grout	(.06-.11)				
Quarry Tile	(.05-.09)				
Ceramic Tile	(.03-.05)				
Glazed Tile	(.03-.05)				
Porcelain Tile	(.02-.03)				
Polished Granite	(.02-.03)				
Polished Marble	(.02-.03)				
Terrazzo	(.03-.05)				
Brick	(.05-.09)				
Slate	(.05-.09)				
Quartz	(.03-.05)				
Travertine	(.03-.05)				
Masonry	(.05-.09)				

Cost per sq.ft. is based on a suggested list price of \$105/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 Anti-Slip Formula** in the original container, properly sealed to avoid contamination and solvent evaporation. Stored at 77° F (25° C), **511 Anti-Slip Formula** 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 Product**

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 do-it-yourself specialist.

# 511 Anti-Slip Formula

**Osha's Hazard Communication Standard  
U.S. Department Of Labor**

29 CFR 1910.1200 OMB No. 1218-0072  
Identity No: Name: **511 Anti-Slip Formula**

**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: 02 - 2012

**Section 2 - Hazardous Ingredients/Identity Information**

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV
Petroleum Distillate	64741-65-7	100ppm	150ppm

VOC: Less than or equal to 738 g/L

**Section 3 - Physical/Chemical Characteristics**

Boiling point: 355 - 395° F	Specific gravity: 0.80
Vapor pressure (200 C): .5 mm hg	Melting point: Not Available
Vapor density (Air=1): 5.3	Evaporation rate: < 0.1
Solubility in water: Insoluble	Density: 798 Kg/M3
Appearance and odor: Clear, colorless, aromatic liquid.	

**Section 4 - Fire And Explosion Hazard Data**

Flash Point: 125° F (PCC)	Flammable limits:
LEL: 1	UEL: 7
pH: Neutral	DOT#: Not Available
NFPA Hazard rating H F R S (0-Least, 4-Extreme): 1 2 0 0	
Extinguishing media: Dry chemical, CO <sub>2</sub> , water fog	

Special fire fighting procedures: Combustible, wear 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 sources of ignition such as heat, sparks or open flames.  
Incompatible materials to avoid: Oxidizing agent.  
Hazardous polymerization: Will not occur.  
Hazardous decomposition products: Carbon monoxide, carbon dioxide, silicone dioxide, fumes of xylene, aromatic and aliphatic hydrocarbons.

**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: Causes severe eye irritation  
Skin: Causes mild skin irritation, drying of the skin. May cause an allergic skin reaction.  
Ingestion: Harmful if swallowed. Causes vomiting, nausea and diarrhea.  
Inhalation: Excessive inhalation causes headache, dizziness, nausea and incoordination. Harmful if inhaled.  
Medical conditions aggravated: Respiratory, pulmonary, liver and kidney disorders. Central nervous systems disorders. Gastrointestinal disorders.

**Emergency and First Aid Procedures:**

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**Skin:** Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.

**Ingestion:** If swallowed, do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

**Section 7 - Precautions for Safe Handling and Use**

Steps to be taken in case material is released or spilled: wipe, scrape or soak up in an inert material and put in a container for disposal. Wear proper protective equipment. Remove sources of ignition. Increase area ventilation.

Waste disposal method: disposal should be made in accordance with federal, state and local regulations. Incineration recommended in approved incinerator according to federal, state and local regulations.

Precautions to be taken in handling and storing: use a ground strap. Store upright in a cool place below 77° F (25° C). Keep container closed when not in use. Avoid breathing vapors. Combustible.

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.

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:** 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.

**WARRANTY & CAUTIONS****Warranty**

Instructions are a condensed guide and should not be considered complete. In the event of failure, the only obligation of Miracle Sealants 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 Anti-Slip Formula** 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 the MSDS for additional information.