## PRODUCT DATA SHEET

### 511 Impregnator

**Natural Look Penetrating Sealer**

**Water, Stain & Slip Protection for**
- Quarry Tile
- Glazed Tile
- Travertine
- Quartz

**Uses**
- Interior & Exterior
- Restrooms
- Special Features

**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 Impregnator** is a unique polymerized silicone formulation designed for the protection of all medium to dense porous tile, stone and grout surfaces. **511 Impregnator** penetrates into the surface and forms an invisible barrier that is resistant to moisture and stains, while allowing vapor to escape. **511 Impregnator** is not a surface coating and will not alter the natural look. All surfaces are harder and less slippery. **511 Impregnator** can be used on interior and exterior applications. **511 Impregnator** is U.V. transparent, resists acid rain and will not yellow under any circumstances. **511 Impregnator** averages five to twenty times the coverage of competitive products. (See coverage chart). **511** products have been formulated for or applied to freshly pored concrete to retard the evaporation of water. **511 Impregnator** 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 Impregnator** 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 Impregnator

**Low Toxicity**

**Easy-to-Use**

**Weather Resistant**

**Weather Resistant**

**Salt Resistant**

**Non Yellowing**

**Acid Resistant**

**Non Coating**

**Slip Resistant**

**U.V. Transparent**

**Anti Microbial Ingredient**

**Epoxy Grout Film Remover**

**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.

**Residue Removal**

To remove accumulated **511 Impregnator** residue, use **Miracle Residue Remover** as directed.

**Epoxy Grout Film Remover**

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.

**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 Impregnator** increases the static coefficient of friction on all surfaces. **511 Impregnator** has been used successfully for compliance with the American Disability Act's recommendations for slip resistance (ASTM C 1026-89) 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/MDSD before using.** **511 Impregnator** should not be diluted or thinned in any way. **511 Impregnator** should be used as is from approved containers.

**Before Grouting:** Apply **511 Impregnator** to all surfaces prior to grouting. This step will allow quick and easy clean up after grouting. Grout can stain many surfaces if this procedure is not used prior to the grouting process. Apply **511 Impregnator** 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. 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 Impregnator** 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 specifications. 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 Impregnator** 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 treating the entire area including the tile or stone sur-

### 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 Impregnator** in the original container, properly sealed to avoid contamination and solvent evaporation. Stored at 77° F (25° C), **511 Impregnator** 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 www.miraclesealants.com

**Product Damaged During Transportation**

If product is damaged during transportation contact Info Trac 1 800-600-5905

**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 or do-it-yourself specialist.

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### Coverge Chart - Used as directed

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost per sq.ft/sq.m.</th>
<th>1000 sq.ft.</th>
<th>2000 sq.ft.</th>
<th>3000 sq.ft.</th>
<th>4000 sq.ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanded Grout</td>
<td>(.06 -.11)</td>
<td>10 sq.m.</td>
<td>20 sq.m.</td>
<td>30 sq.m.</td>
<td>40 sq.m.</td>
</tr>
<tr>
<td>Ceramic Tile</td>
<td>(.05 -.09)</td>
<td>18 sq.m.</td>
<td>36 sq.m.</td>
<td>54 sq.m.</td>
<td>72 sq.m.</td>
</tr>
<tr>
<td>Glazed Tile</td>
<td>(.03 -.05)</td>
<td>22 sq.m.</td>
<td>44 sq.m.</td>
<td>66 sq.m.</td>
<td>88 sq.m.</td>
</tr>
<tr>
<td>Porcelain Tile</td>
<td>(.02 -.03)</td>
<td>27 sq.m.</td>
<td>54 sq.m.</td>
<td>81 sq.m.</td>
<td>108 sq.m.</td>
</tr>
<tr>
<td>Polished Granite</td>
<td>(.02 -.03)</td>
<td>30 sq.m.</td>
<td>60 sq.m.</td>
<td>90 sq.m.</td>
<td>120 sq.m.</td>
</tr>
<tr>
<td>Polished Marble</td>
<td>(.02 -.03)</td>
<td>32 sq.m.</td>
<td>64 sq.m.</td>
<td>96 sq.m.</td>
<td>128 sq.m.</td>
</tr>
<tr>
<td>Terrazzo</td>
<td>(.03 -.05)</td>
<td>36 sq.m.</td>
<td>72 sq.m.</td>
<td>108 sq.m.</td>
<td>144 sq.m.</td>
</tr>
<tr>
<td>Brick</td>
<td>(.05 -.09)</td>
<td>40 sq.m.</td>
<td>80 sq.m.</td>
<td>120 sq.m.</td>
<td>160 sq.m.</td>
</tr>
<tr>
<td>Slate</td>
<td>(.05 -.09)</td>
<td>45 sq.m.</td>
<td>90 sq.m.</td>
<td>135 sq.m.</td>
<td>180 sq.m.</td>
</tr>
<tr>
<td>Quartz</td>
<td>(.03 -.05)</td>
<td>50 sq.m.</td>
<td>100 sq.m.</td>
<td>150 sq.m.</td>
<td>200 sq.m.</td>
</tr>
<tr>
<td>Travertine</td>
<td>(.03 -.05)</td>
<td>54 sq.m.</td>
<td>108 sq.m.</td>
<td>162 sq.m.</td>
<td>216 sq.m.</td>
</tr>
<tr>
<td>Masonry</td>
<td>(.05 -.09)</td>
<td>60 sq.m.</td>
<td>120 sq.m.</td>
<td>180 sq.m.</td>
<td>240 sq.m.</td>
</tr>
</tbody>
</table>

Cost per sq.ft is based on a suggested list price of $120/gallon. 1 gallon = 3.785 liters.
Section 1 - Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components</th>
<th>CAS#</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>64741-65-7</td>
<td>100ppm</td>
<td>150ppm</td>
</tr>
</tbody>
</table>

Section 2 - Physical/Chemical Characteristics

- Boiling point: 355 - 395°F
- Vapor pressure (200°C): 5 mm hg
- Vapor density (Air=1): 5.3
- Solubility in water: Insoluble
- Density: 798 Kg/M³
- Appearance and odor: Clear, colorless, aromatic liquid.

Section 3 - Hazardous Ingredients/Identity Information

- Flash Point: 125°F (PCC)
- Specific gravity: 0.80
- Melting point: Not Available
- Evaporation rate: <0.1
- NFPA Hazard rating HFRS (0-Least, 4-Extreme): 1 2 0 0
- Extinguishing media: Dry chemical, CO₂, water fog

Unusual fire and explosion hazards: Combustible, wear bunker gear and NIOSH approved breathing apparatus.

Section 4 - Fire and Explosion Hazard Data

- Flash Point: 125°F (PCC)
- Flammable limits:
  - Lower Explosive Limit (LEL): 7
  - Upper Explosive Limit (UEL): 1
- pH: Neutral
- DOT#: Not Available

Other protective clothing or equipment: Chemical resistant clothing.

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 agents.
- Hazardous polymerization: Will not occur.
- Hazardous decomposition products: Carbon monoxide, carbon dioxide, silicon 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 inhal.

Section 7 - Precautions for Safe Handling and Use

- 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: Do not induce vomiting. Give 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 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: Flammable liquids, n.o.s., (contains petroleum distillates)
- DOT Hazard Class: 3
- OSHA Hazard Class: N/A
- UN/NA Number: 9913
- EPA Hazard Waste: N/A
- CPSC Classification: N/A
- 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

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 therewith. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.

Caution

511 Impregnat 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.