

# 511 CST

## Penetrating Concrete Surface Treatment



www.miraclesealants.com

### Water, Stain & Slip Protection For

All concrete and masonry surfaces.

#### Uses

- |                           |                 |                    |
|---------------------------|-----------------|--------------------|
| ■ Interior & Exterior Use | ■ Loading Docks | ■ Drive Ways       |
| ■ Restrooms               | ■ Garages       | ■ Building         |
| ■ Patios                  | ■ Walls         | ■ Exterior Facades |
| ■ Bridges                 |                 |                    |

#### Special Features

- |                      |                         |                 |
|----------------------|-------------------------|-----------------|
| ■ Weather Resistant  | ■ Freeze/Thaw Resistant | ■ Easy-to-Use   |
| ■ Salt Ion Resistant | ■ Acid Resistant        | ■ Non Yellowing |
| ■ U.V. Transparent   | ■ Less Slippery         | ■ Low Toxicity  |
| ■ 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 Concrete Surface Treatment (CST)** is a unique polymerized formulation designed for the protection of all concrete products. **511 CST** forms an invisible barrier that is resistant to moisture and stains while allowing vapor to escape. Concrete surfaces will resist spalling and damage by salt ion intrusion in addition to having excellent freeze/thaw performance. INDEPENDENT LABORATORY TESTS SHOW **511 CST** OUT PERFORMS COMPETITIVE PRODUCTS. **511** has been formulated for or applied to freshly poured concrete to retard the evaporation of water.

**NOTE:** For any questions concerning grout or mortar refer to the manufacturers specification.

#### Sample Testing

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

#### 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 CST should not be diluted or thinned in any way. 511 CST** should be used as is direct from approved container.

Apply the appropriate **Miracle Penetrating Sealer** using a **Mira Brush** or clean white towel or cloth. On large jobs or vertical applications a pump type sprayer may be used. Saturate the surface being careful not to allow sealer into the open ungrouted joints. For the most porous surfaces a second application should be applied after the first has dried at least 2 - 8 hours. Allow the second application to stand for 3 - 5 minutes before removing any excess with a clean dry towel. The **511 Sealant** must cure 12 - 24 hours before proceeding with the grouting process. 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 affected area with a clean dry towel. Let sit for 1 - 2 minutes before buffing area clean with a second clean dry towel. Grout the surface per the manufacturer's instructions. Clean all grout/mortar residues completely with a sponge and clean water. If grout clean up is not performed effectively, additional cleaning may be necessary to remove any remaining grout residue or haze. For this procedure, we recommend using **Phosphoric Acid Cleaner** or **Grout & Concrete Film Remover (GCFR)** (hydrochloric acid) as directed.

Allow grout to cure per manufacturer's specification. Once the surfaces have completely cured, proceed with the sealing of the grout joints for water and stain resistance.

**Poured Concrete:** When dealing with green concrete in areas subjected to high traffic and/or stains, **511 CST** can be applied before the concrete has completely dried. Although **511 CST** does allow moisture to escape and slow down the evaporation process.

#### Existing Installation - Surface Preparation

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

**Surface Coating/Wax Removal:** To remove existing coatings and/or waxes use **Mira Strip** or **H2O Strip** per the instructions.

**Heavy Duty Cleaning:** To remove lime and hard water deposits, efflorescence, rust and other heavy dirt and grime use **Phosphoric Acid Cleaner, (GCFR) Grout & Concrete Film Remover (Hydrochloric Acid)** or **Sulfamic**

**Acid Crystals.** Check with concrete manufacturer for specifications. For a non acid deep clean, use **Liquid Poultice** as directed. All strippers and/or cleaners should be thoroughly rinsed with clean water and allowed to dry.

**Light Duty Cleaning:** Use **Mira Clean #1, Counter Kleen** or diluted **Phosphoric Acid Cleaner**.

#### Mold, Mildew and Bacteria Sanitation

For best results in killing mold, mildew, bacteria and other micro organisms, use **Miracle Wipes** as directed.

#### Residue Removal

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

#### Existing Installations - Application Instruction

**1st Application:** Apply **511 CST** using a **Mira Brush** or a clean towel. On large exterior applications a sprayer may be used. Saturate the area allowing to stand for 3 - 5 minutes for maximum protection. Any excess should be removed with a clean dry towel.

**2nd Application:** Let the first application dry for at least 12 - 24 hours before applying the second. Apply the second in the same manner as before.

#### Cure Time

The surface will be dry to the touch within 3 - 5 hours and completely cured in 72 hours.

#### Coverage (Used as directed)

**1st Application:** 250 - 500 square feet per gallon (23 - 46 square meters per 3.785 liters)

**2nd Application:** 500 - 1000 square feet per gallon (45 - 90 square meters per 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 CST** in the original properly sealed container to avoid contamination and solvent evaporation. Stored at 77° F (40° C), **511 CST** 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 or 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, cleaner, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it yourself specialist.

#### 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 CST** 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. Use open windows and 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 area until product or surface has thoroughly dried. Refer to the MSDS for additional information.

# 511 CST

## Penetrating Concrete Surface Treatment

### Osha's Hazard Communication Standard

#### U.S. Department Of Labor

29 CFR 1910.1200 OMB No. 1218-0072  
Identity No: 6418 Name: 511 CST

#### 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: 10-2008

#### Section 2 - Hazardous Ingredient/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV
Petroleum Distillate	64741-65-7	100ppm	150pm
VOC: 908 g/L			

#### Section 3 - Physical/Chemical Characteristics

Boiling point: 370° F Specific gravity: .820  
Vapor pressure: (200C) 0.5 mm Hg Melting point: Not Available  
Vapor density: (Air=1) 5.3 Evaporation rate: (by AC=1) < 0.1  
Solubility in water: Insoluble  
Appearance and odor: Colorless, solvent odor

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

Flash point: 135° 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: CO<sub>2</sub>, dry foam, water fog.  
Special fire fighting exposure: Wear full bunker gear and NIOSH approved breathing apparatus.  
Unusual fire and explosion hazards: Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure build up which could result in container rupture.

#### Section 5 - Reactivity Data

Stability: Stable  
Conditions to avoid: Heat, flame contact with strong oxidizing agents.  
Incompatible materials to avoid: Strong oxidizers.  
Hazardous polymerization: None.  
Hazardous decomposition products: CO<sub>2</sub>

#### Section 6 - Health Hazard Data

##### Routes of Entry:

Inhalation - Possible  
Skin - Possible  
Ingestion - Possible  
Health Hazards - Same as signs and symptoms of overexposure.  
OSHA Carcinogenicity - None; NTP - None; IARC Monographs - None

##### Signs and Symptoms of Overexposure:

Eyes: Burning irritation.  
Skin: Irritation.  
Ingestion: Toxic.  
Inhalation: Dizziness, headache.  
Medical Conditions Aggravated: Same as signs and symptoms of overexposure.

### Emergency and First Aid Procedures

**Eyes:** Flush with water for 15 minutes. If irritation persists, call a physician.  
**Skin:** Wash with soap and water; if irritation persists, call a physician.  
**Ingestion:** Do not induce vomiting. Call a physician.  
**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 proper waste disposal container.

Waste disposal method: Dispose of in accordance with federal, 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 - If available	Special - None
Mechanical - If available	Other - None

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.