

511 Seal & Enhance

Impregnating Color Enhancer



www.miraclesealants.com

Osha's Hazard Communication Standard US Dept. of Labor

Identity No:	Name: 511 Seal & Enhance
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:	March 2008

Section 2 - Hazardous Ingredient/Identity Information			
Hazardous Components	CAS#	OSHA PEL	ACGIH TWA
Solvent Naphtha (Petroleum)	64742-88-7	500 ppm	100 ppm
Medium Aliphatic			

Section 3 - Physical /Chemical Characteristics

Boiling Point: Appx. N200° C
 Vapor pressure: Not Determined
 Vapor density(air=1) : Heavier than air
 Solubility in water: None
 Appearance and odor: Clear, Colorless to amber Liquid.
 VOLATILE BY VOLUME: 60-70%
 VOC CONTENT: 591 g/L

Section 4 - Fire and Explosion Hazard Data

Flash point: 145° F
 Method:Pensky-Martens closed cup ASTM D 93

Flammable limits: Not tested
 LEL: not tested
 pH: Not Applicable
 NFPA hazard rating- HFRS (0-Least, 4-Extreme): 2
 HMIS hazard rating- HFR (0-Least, 4-Extreme): 2

Extinguish media: Foam, water spray or fog. Dry chemical powder, CO2, sand or earth may be used for small fires only. Do not discharge extinguishing waters into the aquatic environment.

Special fire fighting procedures: wear full protective clothing and self-contained breathing apparatus.

Unusual fire and explosion hazards: none

Section 5 - Reactivity Data

Stability: Conditions to avoid: extreme heat and open flames
 Hazardous Combustion products:
 Burning can produce the following combustion products:
 Oxides of carbon
 Oxides of silicone
 Oxides of carbon
 Oxides of nitrogen
 Traces of Hydrogen Fluoride

Carbon monoxide is highly toxic if inhaled; carbon dioxide is sufficient concentrations can act as a asphyxiant. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Section 6 - Health Hazard Data

Harmful or fatal if swallowed
 Causes eye and skin irritation
 Harmful if swallowed
 Harmful if inhaled
 Harmful if absorbed through skin
 Aspiration may cause lung damage
 May cause allergic skin reaction
 May cause dizziness and drowsiness
 May cause liver and kidney disorders

Medical conditions generally aggravated by exposure- same as signs and symptoms of over exposure.

Emergency and First Aid Procedures:

Eyes: Flush with water for 15 minutes. If irritation persists call a physician.
 Skin: wash off with soap and clean water for 15 minutes. If irritation persists call a physician.
 Ingestion: Drink large amounts of water. Call Physician
 Inhalation: Remove person to fresh air. If not breathing, administer artificial respiration including oxygen. Provide medical attention.

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 a proper waste disposal container.
 Waste disposal method: Dispose of in accordance with 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 less than or equal to 32° F 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
 Mechanical- if available
 Special- none
 Other- None

Protective gloves: Plastic or rubber, chemical resistant
 Eye Protection: Tight fitting, splash, proof safety 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

U.S. Department of Transportation Classification (49CFR)
 ID # UN1993
 Proper Shipping Name PETROLEUM DISTILLATES, N.O.S.
 Class/ Division 3
 Packing group III
 Marine Pollutant: No
 Transportation Class: 55
 IMDG
 ID # UN1268
 Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
 Class/ Division 3
 Packing group III
 IATA (Country variations may apply)

Section 10 - Regulatory Information:

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.

Section 302 - Extremely Hazardous Substances:

None.

Section 304 - CERCLA Hazardous Substances:

Cas #	Appx. Wt. %	Component name
1330-20-7	4.5	Xylene
100-41-4	1.3	Ethylbenzene
108-88-3	Trace	Toluene

Section 312 - Hazard Class:

Acute: Yes	Chronic: Yes	Fire: Yes
Pressure: No	Reactive: No	

Section 313 - Toxic Chemicals:

Cas #	Appx. Wt. %	Component name
1330-20-7	4.5	Xylene
100-41-4	1.3	Ethylbenzene

Supplemental State Compliance Information

California:
 Warning: This product contains the following chemical(s) listed by the state of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

Cas #	Appx. Wt. %	Component name
108-88-3	Trace	Toluene

Massachusetts:

Cas #	Appx. Wt. %	Component name
1330-20-7	4.5	Xylene
100-41-4	1.3	Ethylbenzene

New Jersey:

Cas #	Appx. Wt. %	Component name
1330-20-7	4.5	Xylene
100-41-4	1.3	Ethylbenzene
68988-56-7	4-8	Trimethylated silica
3555-47-3	Trace	Tetra(trimethoxysilyloxy) silane

Pennsylvania:

Cas #	Appx. Wt. %	Component name
68988-56-7	4-8	Trimethylated silica
1330-20-7	4.5	Xylene

EPA Hazard Waste: Not Available

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.

511 Seal & Enhance

Impregnating Color Enhancer

Ready to Use “One Step” VOC Compliant Solvent Base Impregnator/Color Enhancer for All Honed, Textured and Polished Surfaces Including:

- Granite
- Marble
- Natural Stone
- Slate
- Limestone
- Ceramic Tile
- Quarry Tile
- Grout
- Not for Concrete/Masonry

Special Features

- Superior Stain Protection
- Superior Color Enhancement
- Oil Resistant
- Water Resistant
- One Product, One Step
- VOC Compliant
- Durable (3 – 5 Years)
- Easy-to-Use
- Interior & Exterior Applications
- Non Yellowing
- Grout Release
- Grout Sealer

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 Seal & Enhance** is a unique, VOC compliant, solvent-base formula that provides superior stain protection and superior color enhancement in one easy to use product. **511 Seal & Enhance** will enhance the color and rejuvenate the appearance of tumbled, honed, acid-washed, sandblasted, flamed, textured, even polished stone and tile surfaces. **511 Seal & Enhance** can also be used on new installations as a grout release before the grouting process.

Sample Testing

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

NEW INSTALLATIONS

Read entire label and PDS/MSDS before using. **511 Seal & Enhance** should not be diluted or thinned in any way. **511 Seal & Enhance** should be used as is direct from approved container.

Follow the recommended installation methods and procedures of the Marble Institute of America, Building Stone Institute and the Tile Council of America. Allow new setting materials and grout to cure per manufacturers instructions prior to sealing.

Sealing as a Grout Release

To insure the best possible installation, **511 Seal & Enhance** should be applied as a grout release before the grouting process. **511 Seal & Enhance** will resist dye absorption, facilitate grout residue removal (up to 45% faster), and offer superior stain resistance during and after the construction process.

Directions

1. Protect neighboring and adjacent surfaces including baseboards, wood, carpet, metal and landscaping.
2. Sweep or vacuum all dust, dirt and surface debris.
3. Insure the surface is clean, dry and free from contaminants.
4. Liberally apply an even application of **511 Seal & Enhance** using a **Miracle Sealants’ Hand/Stand Applicator** or clean white towel. Be careful not to allow sealants into open un-grouted joints.
5. Allow **511 Seal & Enhance** to penetrate the surface for 3 - 5 minutes before removing all excess sealer/enhancer before it dries on the surface with a clean towel.
6. A 2nd application is necessary and should be applied after the first has dried at least 1 hour.
7. Any excess product that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Seal & Enhance** and immediately buffing dry.
8. Proceed with the grouting process per the manufacturer’s instructions.
9. Clean all excess grout completely from the surface with a clean sponge and water. Take the time at this stage of the installation to carefully clean and detail.
10. Allow grout joints to dry per manufacturers specification.
11. If grout clean up is not performed effectively, additional cleaning may be necessary.

Grout Sealing

Once the grout has cured per the manufacturers recommendations, proceed with the sealing of the grout.

Directions

1. Insure that the surface is clean, dry and free from contaminants.
2. Liberally apply an even application of **511 Seal & Enhance** using a **Miracle Sealants’ Hand/Stand Applicator**, clean white towel or a thin paintbrush directly to untreated grout joints.
3. Allow **511 Seal & Enhance** to penetrate the surface for 3 - 5 minutes before removing all excess sealer/enhancer with a clean towel.
12. A 2nd application is necessary and should be applied after the first has dried at least 1 hour.
13. Any excess product that has dried on the surface creating a residue/film, may be removed by reactivating the residue with **511 Seal & Enhance** and immediately buffing dry.

Finished area should be allowed to cure for 12 - 24 hours before putting into service. For optimum results keep area dry and free from stains for 72 hours after application.

EXISTING INSTALLATIONS

Surface must be dry and free of contaminants including previously applied sealers, coatings, waxes, dirt, lime & hard water deposits, efflorescence, rust and other heavy dirt and grime.

Floor Finish Removal

To remove existing floor finish and/or waxes use **Mira Strip** for solvent base finish and **H2O Strip** for water base finish as directed.

Heavy Duty Cleaning

To remove lime, hard water deposits, efflorescence rust and other heavy dirt and grime use **GCFR (Grout, Concrete Film Remover)** “Stronger” or **Phosphoric Acid Cleaner** “Mild-Strong” as directed. These acid cleaners can affect the surface finish of acid sensitive stone and tile. For acid sensitive stone or tile use **Liquid Poulitce** as directed.

Light Cleaning

For light cleaning use **Mira Clean #1** as directed.

Sealing (Surface & Grout)

Follow the application instructions previously mentioned, except now seal grout joints at the same time as the rest of the stone or tile surface. When treating the surface and grout at the same time make sure to saturate the grout with **511 Seal & Enhance**. Do not allow **511 Seal & Enhance** to puddle on the surface.

Coverage

Coverage will vary depending on density, porosity, texture, surface absorption, weather, time solution is left on the surface and application methods. Used as directed, **511 Seal & Enhance** will cover approximately 250 - 2,000 square feet per gallon (25 - 200 square meters per 3.785 liters).

RESEALING

Resealing will vary depending on porosity, density, hardness, foot traffic and the elements (indoor or outdoor) the area is exposed to. As a general rule, medium to dense surfaces exposed to heavy foot traffic can be resealed every 1 - 3 years. Very hard surfaces exposed to heavy foot traffic can be resealed every 3 - 5 years. It is important to remember that any additional or future applications of **511 Sealants** will require approximately half the amount of sealant as originally used.

Mold, Mildew and Bacteria Sanitation

For best results in killing mold, mildew, bacteria and other microorganisms, use **Miracle Disinfectant** or **Miracle Wipes** as directed.

Storage

Store **511 Seal & Enhance** in the original container, properly sealed to avoid contamination and evaporation. When store in the upright position at 77° F (40° C), **511 Seal & Enhance** will have a shelf life of 12 months. Do not allow to freeze.

Technical Support

For additional technical support, contact Miracle Sealants Company @ 1-800-350-1901 or 626-443-6433 ext. 3013. Monday – Friday from 6:30 am – 5:00 pm PT.

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 Damage

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

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 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 Seal & Enhance 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. 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.