

Miracle Sealants Company

NATURAL STONE CARE MADE SIMPLE

Caring for your Stone Installation

Congratulations, the natural stone you have purchased for your home or office is an investment that will give you many years of satisfaction. Stone is a natural product. Simple care and maintenance will help maintain its original appearance. Here are some recommendations for routine care and cleaning:

Precautions

Marble, Limestone, Sandstone, and Slate- Use coasters under all glasses, particularly those containing alcohol or citrus juices. Many common foods and drinks contain acids that will etch or dull the stone surface. Do not place hot items directly on the stone surface. Use trivets or mats under hot dishes and placemats under china, ceramics, silver or other objects that can scratch the surface.

Granite- Granite is very durable. It is resistant to scratching, acids (with the exception to hydrofluoric acid), and heat. In spite of its resilience it should not be abused.

Cleaning Procedures & Recommendations

Floor & Wall Surfaces

Dust mop interior floors frequently using clean, non-treated dry dust mop. Sand dirt and grit do the most damage to natural stone surfaces due to their abrasiveness. Mats or area rugs inside and outside and entrance will help to minimize the sand, dirt, and grit that will scratch the stone floor. Be sure that the underside of the mat or rug is a non-slip surface. Normally, it will take a person about eight steps on a floor surface to remove sand or dirt from the bottom of their shoes. Do not use vacuum cleaners that are worn. The metal or plastic attachments or the wheels may scratch the surface. Recommend periodic cleaning using **Miracle Tile & Stone Cleaner** or **Miracle Heavy Duty Cleaner**. Rinse the surface thoroughly with water after washing with **Miracle Tile & Stone Cleaner** or **Miracle Heavy Duty Cleaner** solution and dry with a soft cloth. Change the rinse water frequently.

Counter Top Surfaces – Marble, Granite, Quartz, Engineered Stone

Clean stone surfaces with a neutral pH cleaner such as **Miracle Tile & Stone Cleaner** or **Miracle Heavy Duty Cleaner** as directed. For counters and vanities use **Miracle Counter Kleen, Miracle Quartz Counter Top Cleaner** or **Miracle 511 Kleen & Reseal**. Too much cleaner may leave a film and cause streaks. Do not use products that contain lemon, vinegar, acids or other household cleaning products on marble, limestone or granite. Do not use scouring powders or creams; these products contain abrasives that may scratch the surface. **Miracle 511 Impregnator, 511 Quartz Counter Top Sealer, 511 Porous Plus** or **511 Seal & Enhance** should be applied to minimize the possibility of staining and bacteria contamination. **Miracle Stone Polish** nourishes and enriches the natural beauty and polish of marble, granite and engineered stone counter tops.

Bath, Glass Tile, Shower Doors and Other Wet Areas

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In the bath or other wet areas, soap scum can be minimized by using a squeegee after each use. To remove soap scum, use **Miracle Tile & Stone Cleaner**, **Miracle Heavy Duty Cleaner** or **Liquid Poulitice**. To protect use **Miracle 511 Glass Tile & Shower Sealer**.

Vanity Top Surfaces

Vanity tops must have a penetrating sealer applied. **Miracle 511 Impregnator**, **511 Porous Plus** or **511 Seal & Enhance** can be used. If low odor is preferred use **Miracle 511 H2O+**. **Miracle Stone Polish** can also be applied to marble and buffed to minimize water spotting.

Food Preparation Areas

In food preparation areas, the stone will need to have a penetrating sealer applied. **511 Impregnator**, **511 Porous Plus** or **511 Seal & Enhance** resists both oil and water-based stains and is non-toxic/safe for use on food preparation surfaces. If low odor is preferred use **Miracle 511 H2O+**. **Miracle Stone Polish** can also be applied to minimize water spotting.

Honed or Tumbled Finishes

Slate or honed/tumbled marble and limestone should be sealed. **Miracle 511 Seal & Enhance** is formulated to seal and enhance the color of unpolished natural stone. However, either **Miracle 511 Impregnator** or **511 Porous Plus** can be used without altering the color. If low odor is preferred use **Miracle 511 H2O+**.

Outdoor Pool & Patio Areas

In outdoor pool, patio or hot tub areas, flush with clear water and use a **Miracle Tile & Stone Cleaner**, **Miracle Heavy Duty Cleaner** or **Liquid Poulitice** to remove algae or moss. **Miracle Heavy Duty Cleaner**, **Miracle Phosphoric Acid Cleaner** or **HDAC** will remove efflorescence and mineral deposits.

Restoration of Polished Marble

Worn and etched areas can be revitalized by using the appropriate abrasive compounds like **Miracle Mira Hone** and/or **Miracle Mira Dust**. **Miracle Marble Conditioner** can be used to remove light surface scratches, etch marks and maintain polish with floor buffer. Please note that extensive restoration requires a skilled professional.

Restoration of Travertine

Use same techniques as above for polished Travertine. As fill is removed use **Miracle Travertine Fill Kit** to repair the holes and voids as they open up with normal wear and tear.

Stain Removal

Deep set oil & grease stains can be removed from most natural stone by using **Miracle Poulitice Plus**. **Poulitice Plus** is a fine, non-acidic, absorptive clay that will not etch the surface of the stone. It can also be used as a mildly abrasive polish. Refer to the **Miracle Stain Removal Guide** for specific instruction and suggestions for stain removal.

Do's and Don'ts

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- Do dust mop floors frequently
- Do clean surfaces with **Miracle Tile & Stone Cleaner, Miracle Heavy Duty Cleaner or Limestone & Travertine Stone Soap**
- Do thoroughly rinse and dry the surface after washing
- Do blot up spills immediately
- Do protect floor surfaces with non-slip mats or area rugs and countertop surfaces with coasters, trivets or placemats
- Don't use vinegar, lemon juice, or other household cleaners containing acids on marble, limestone, travertine or onyx surfaces
- Don't use household cleaners that contain acid or harsh chemicals such as bathroom cleaners, grout cleaners or tub & tile cleaners
- Don't use household abrasive cleaners such as dry cleansers or soft cleansers
- Don't mix bleach and ammonia; this combination creates a toxic and lethal gas

Please carefully read the instructions prior using any product.

POPULAR MIRACLE SEALANTS STONE CARE PRODUCTS

511 Impregnator is a premium, solvent based, no-sheen, natural look penetrating sealer/impregnator designed to provide maximum stain protection on medium to dense surfaces especially in food preparation and serving areas. Suitable for interior & exterior use. Lasts up to 20 years.

511 Porous Plus is a premium, solvent based, no-sheen, natural look penetrating sealer/impregnator designed to provide maximum stain protection especially in food preparation and serving areas. Especially useful on more porous surfaces. Suitable for interior & exterior use. Lasts up to 20 years.

511 Seal & Enhance is a solvent based, penetrating sealer/impregnator formulated to enrich and enhance the color and finish of unpolished natural stone. It also rejuvenates the color and improves the appearance of worn and weathered stone. Suitable for interior and exterior use. Lasts up to 5 years.

511 H2O+ is a premium water-based, stain resistant, below surface penetrating sealer designed to protect against most water-borne contaminants without changing the natural look of the stone. Suitable for interior and exterior use. Lasts up to 10 years.

511 Quartz Sealer is a premium, solvent based, no-sheen, natural look penetrating sealer/impregnator designed to provide maximum stain protection for all quartz and engineered stone, especially in food preparation and serving areas. Lasts up to 20 years.

Stone Polish is a buffable, non-yellowing, wax-type finish designed to maintain and protect sealed, polished marble, granite and other surfaces from normal surface wear and abuse. Not for use on Floors.

Tile & Stone Cleaner is a concentrated, biodegradable, neutral cleaner especially designed for the routine maintenance of marble and natural stone. It will not affect existing sealers/impregnators.

Miracle Heavy Duty Cleaner is a water based, non-acid, non-toxic, biodegradable cleaner with no VOCs. **Miracle HD Cleaner** will safely clean multiple surfaces in both residential and commercial environments. **Miracle HD Cleaner** has been formulated to deal with dirt and grime on a molecular level.

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Cement grout haze can be removed without using harsh acids. Grease can be effectively eliminated. Carbon build up is lifted away. Clean sticker residue, scum, efflorescence, salts, minerals, crude oil, kitchen grease, permanent marker and automotive liquids. Acrylic, Epoxy and Urethane grout haze is removed effortlessly.

Counter Kleen, Quartz Counter Top Cleaner & 511 Kleen & Reseal are non-toxic, neutral cleaners designed for use specifically on counter tops and the like. These products are easy to use simply spray on and wipe off no rinsing necessary.

Limestone & Travertine Stone Soap a natural stone soap that reacts with calcium to create a protective film while enhancing and nourishing honed, tumbled and textured natural stone floors. Use regularly for best performance, easy to use and no rinsing necessary.

Liquid Poultice is a two-part system that deep cleans acid sensitive calcium base natural stone and grout. **Liquid Poultice** safely penetrates into the surface encapsulating the dirt and grime and dissolving it as the **Liquid Poultice** moves back to the surface. It is especially effective with use on Travertine, Limestone and Marble natural stone surfaces without harming the surface, even when polished.

Poultice Plus is a fine, non-acidic absorptive clay and abrasive cleaning powder designed for the removal of deep-set oil and grease stains in addition to light grout haze. In the event of stains, water is combined with the powder to create a thick paste which is applied and allowed to “draw” the stain out.

MARBLE AND GRANITE ARE PRODUCTS OF NATURE. THEY ARE QUARRIED FROM THE EARTH AND ARE SUBJECT TO VARIATIONS IN VEINING, COLORATION, AND SHADING. NO TWO SLABS OR TILES ARE EXACTLY ALIKE (INCLUDING SHOWROOM SAMPLES). PLEASE INSPECT TILE PRIOR TO INSTALLATION. THE FINISHED INSTALLATION SHOULD BE VIEWED AS A WHOLE RATHER THAN INDIVIDUAL TILES. VARIATION IS EXPECTED AND WE CANNOT GUARANTEE TO EXACTLY MATCH ANY MARBLE OR GRANITE.

GREEN MARBLE – MAY CONTAIN IMPURITIES THAT CAN CAUSE WARPING AND/OR BLISTERING WHEN INSTALLED WITH SETTING MATERIALS CONTAINING WATER. WE STRONGLY RECOMMEND THE USE OF A WATER-FREE EPOXY ADHESIVE (100% SOLID EPOXY) FOR INSTALLING OF THESE TILES.

BLACK MARBLE – MOST OF THE TIME BLACK AND DARK MARBLES ARE RECOMMENDED FOR VERTICAL AND LOW TRAFFIC FLOOR USE ONLY (MAINLY BECAUSE THEY TEND TO SHOW IMPERFECTIONS, STAINING, AND SCRATCHING MORE THAN LIGHTER COLORS). IF YOU INTEND TO USE THESE MARBLES AS FLOORING MATERIAL. PLEASE TAKE THE MAINTENANCE STEPS NECESSARY TO PROTECT THE FINISH AFTER INSTALLATION.

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BASIC - GEOLOGY 101

Limestone

Limestone is the result of millions of years of sea shells and bones of sea creatures settling as sediment on an ocean floor (hence it is called a sedimentary stone). The calcium in the bones & shells combine with carbon dioxide in the water to form calcium carbonate, which is the basic mineral structure of all limestone and marble. All limestone are crystallized to some degree.

Marble

Given enough heat and pressure, limestone will crystallize (calcify), resulting in marble (hence it is a metamorphic stone). The crystal structure allows marble to take a polish, and bring out the color of the other trace elements. Pure limestone, not being crystallized will not polish. Each marble is crystallized to varying degrees. The term marble is Greek, meaning “shimmering block of stone.”

Travertine

Travertine also began as limestone, which over time, through geological shifting has gravitated to deep within the earth. Heated by the earth’s inner core, the water rises as steam and hot pressurized water, to form mud baths. This rising hot water, dissolves the limestone and brings with it granules from below, forming mud beds on the surface. If enough time transpires, the mud beds cool and crystallize into solid stone called travertine.

Granite

The name granite derives from the Latin (“granum”=grain) refers to the granular texture. Granite began as liquid magma at the center of the earth. It is an igneous stone and very different from the others. Due to the extreme pressure within the earth, and the absence of atmosphere, granite is very dense. Granite is a mixture of ingredients, including common minerals such as feldspar, quartz and mica. The proportions vary considerably according to each type. Granite can also be a metamorphic stone if it is subjected to additional heat and pressure after it is formed (hence a marbleized appearance).

Sandstone

Sandstone is somewhat of a hybrid of granite and marble. Through a sedimentary process, silica crystals (quartz) are bonded together by calcium carbonate. Heat and pressure crystallize the calcium carbonate through metamorphosis.

Slate

Slate is metamorphic rock, like the marble. However, instead of forming from a pre-existing limestone (like marble), slate is formed from the low-grade metamorphism of the sedimentary rock shale. Slate, like shale (“mudstone”), is a very fine-grained rock of mostly microscopic clay minerals with some microscopic quartz and calcite. The alteration of shale by heat and pressure produces the pronounced partings (slaty cleavage) that give slate its characteristics. Like limestone and marble, the color comes from the trace metals. The unique color of most Chinese and Indian slates is the result of splitting the slate along natural layers, exposing the metals to the atmosphere which causes them to oxidize (rust).

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Quartz – Engineered Stone

These are manufactured composite materials that include quartz in a resin type body. It is manufactured not quarried. Typically cut in sheets for counters. The material is very consistent with little change or variation in color or pattern. These materials hold up very well in kitchen and bar type areas as they are stain and acid resistant.

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