



STONE COAT

DATA SHEET

SDS-BIONIC STONE COAT

DESCRIPTION

SDS-Bionic Stone Coat is a clear, non-breathable protective quartz coating for calcium-based stones such as Marble, Limestone, Travertine and Onyx as well as man-made conglomerates that are cement based. SDS-Bionic Stone Coat protects stone from etching by providing a long-lasting barrier with superior resistance against moisture intrusion, stains, mold, liquid and food acids. Available in a gloss or satin finish, is ideal for use in kitchens, restaurants, bars, tables. (Vinegars will etch coating if not cleaned up within 1hour).

SURFACE

Marble, Limestone, Travertine, Tumbled Marble, Onyx and other natural stone as well as man-made conglomerates that are cement based.

SOLUTION

Moisture, stains, and acid etching from most foods and drinks.

CHARACTERISTICS

Color: Clear to slight amber to rose (depending on temp and humidity) always dries clear.

Finish: Gloss or Satin

Vehicle Type: Solvent Base

Flash Point: (C Penskey-Martens closed Cup) 25°C/77°F

VOC: less than 100 g/L

Weight per Gallon: 7.36 lb

Non-breathable

SPREAD RATE

Recommended Spread Rate per coat:

Wet mils: 4.0-5.0

Dry mils: 2.4-3.0

Limestone & Travertine require 2 coats wet on tack

COVERAGE

| Substrate | Sq Ft / gal |
|-----------------|-------------|
| Limestone | 250-300* |
| Marble | 300-400 |
| Travertine | 250-300* |
| Tumbled Marble | 300-400 |
| Onyx | 300-400 |
| Polished Marble | 300-400 |

Coverage will vary depending on the porosity and texture of the substrate.

*Requires 2 coats

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material using SoSafe Spray Away Boosted for unpainted surfaces. Rinse with fresh clean water and dry.

Removal of all existing silicone sealers

To determine if the surface is previously sealed or coated, sprinkle water onto the surface. If the water is absorbed and the surface becomes darker, it has not been sealed. If the water beads up, there is a coating or sealer that must be removed to allow adhesion of SDS-Bionic Stone Coat to the substrate. It is crucial to ensure adhesion of the coating. Remove all surface contamination by washing with SoSafe Spray Away Boosted. Rinse with fresh clean water and dry.

Honed Stone Surfaces

On honed surfaces make sure to use Satin version of SDS-Bionic Stone Coat to maintain that honed look, it may still be glossier than the natural honed finish. It may also enhance beige limestone or travertine. Always do a test sample.

Exterior Surfaces

It should be noted that on exterior surfaces, especially white, Stone Coat could very slightly yellow over time.

APPLICATION INSTRUCTION

Test Area

Due to the wide variety of colors and textures of stone and the various methods of application and environments, test SDS-Bionic Stone Coat in an inconspicuous location to ensure adhesion and determine that the desired look is achieved. There will be a slight enhancement or change in appearance from the natural stone, especially on light brown and beige stones.

Application

Once surface had been properly prepared and is clean, dry, and free of any prior silicon based sealers (SDS-Bionic Stone Coat will not adhere to silicone), mask off any adjacent surfaces to keep them free of drips or accidental coating. SDS-Bionic Stone Coat is available in two finishes, satin or gloss. The application area must be free of dust and other contaminants that may settle into the finish during application and become part of the surface. Always wipe surface with a tack cloth prior to application to remove any small pieces of dust.

SDS-Bionic Stone Coat is a 2 component product (REQUIRES PART B SDS-BIONIC CATALYST) Stir contents of SDS-Bionic Stone Coat thoroughly to re-suspend the nano particles that have settled to the bottom of the container. In a separate, clean container large enough to accommodate equal parts SDS-Bionic Stone Coat and SDS-Bionic Catalyst, mix 1 part SDS-Bionic Stone Coat and 1 part SDS-Bionic Catalyst and stir thoroughly. Make certain to re-stir every 15-20 minutes to ensure the nano particles are re-suspended in order to provide proper performance.

For best results, spray coating with an HVLP sprayer, using a 1.4 tip and approximately 25 PSI. On a separate piece of cardboard, first spray a test pattern to achieve a 8" to 10" elongated pattern approximately 1.5" to 2" wide in the middle. Spray in a cross pattern right to left, then up and down, to ensure that entire surface has been coated. If spraying is not conducive to the location and space, then roll on the coating.

Using an ultra-smooth high density foam roller (available at most major home improvement stores), pour the 1:1 mixture of SDS-Bionic Stone Coat and SDS-Bionic Catalyst into a roller pan and completely saturate the roller with the mixture. Apply a liberal coat in a cross-pattern; left to right, then up and down as quickly as possible one time only making sure there is always plenty of material in the roller so no spots are missed. Do not overwork the surface, simply spread the coating and let it stand to level out as it dries. Desired wet film thickness (WFT) is approximately 4.0 -5.0 mils. Over working the coating will ruin the finish. Over the next 30 minutes, the coating will level further and become more smooth. When spraying outdoors, make certain there will be no rain for at least 5 hours after your anticipated completion time, the temperature needs to be between 45F and 105F and 90% RH or less with no morning dew or the possible return of morning dew for at least 5 hours. If there is high wind, this will affect the quality of the finish, as blowing wind can disrupt the spray pattern from your HVLP. It can also contribute to contamination of the finish from blowing dust. It may be necessary to erect a wind screen to protect the area.

For limestone, or travertine, apply two coats, wet on tack, 10-15 minutes apart. If the second coat cannot be applied within the 10-15 minutes reapplication window, then let dry 24 hours, then lightly sand with 220 grit sandpaper to abrade the surface so the second coat can bond. Clean the surface and re-apply following the Application Instructions.

Finish

Once SDS-Bionic Stone Coat is applied, do not attempt to adjust the finish by sanding to create a more matte finish, as this process will open the surface grain, causing failure of the coating. Dust knobs or sharp peaks can be lightly buffed off with a soft wool polishing pad and polishing compound, (3M Imperial Polishing Compound). Be very careful not to penetrate the surface. If the surface is accidentally abraded through the coating, then re-sand to 220 grit and re-apply SDS-Bionic Stone Coat using Application Instructions above.

If after applying the coating you notice defects in the finish that cannot be buffed out, simply wait 24 hours and sand the defects out of the surface with 220 grit or lower to remove the defects. It is not necessary to completely sand off the SDS-Bionic Stone Coat, only sand down the imperfections until they are no longer visible. The remaining surface can be sanded to 220 grit if recoating the entire surface is desired. SDS-Bionic Stone Coat may also be blended in if damage has occurred to a spot. This is best achieved by an experienced finisher, similar to paint repair on a car. Wait the full cure time of 7 days after making repairs, avoiding liquids and heavy use. The surface is ready for use on Day 8.

CAUTION: If using spray application method in an enclosed space, make certain to tent off the area being sprayed with plastic tarps to avoid spray dust from traveling and contaminating other surfaces with overspray dust. Tented and enclosed areas should always be positively supplied with fresh air and have ventilated exhaust to outside using fans. Never spray near any open source of ignition, such as pilot light flames, or anything that may spark, as this may cause ignition and explosion of the fumes and vapors.

DRY TIME

Drying Time (@ 77 F, 50% RH): Drying time is temperature and humidity dependent.

Touch: 2-3 hours

Through: 3-5 hours

Dry: 24 hours

Full Cure: 7 Days

INTERRUPTION OF WORK

It is not advisable to stop application in the middle of a singular surface.

CLEAN UP

Clean tools and flush equipment immediately with acetone thoroughly before product dries. Once coating is dry it cannot be removed with acetone.

CAUTION

Always wear OSHA approved 1910.134 and ANSI Z88 2 respiratory protection. Fresh air and exhaust should be provided in the work area. If inhaled, remove affected person to fresh air. Call physician immediately if physical difficulties occur. Wear butyl-rubber gloves and other skin protection to avoid contact. In the event of contact with skin, wash skin thoroughly with soap and water. Chemical safety goggles or splash shields are required. Do not wear contacts without eye protection. Immediately flush eyes with water for 15 minutes after contact and get medical attention. If accidentally swallowed, rinse mouth thoroughly and obtain immediate medical attention.

CARE & MAINTENANCE

First 7 Days (VERY IMPORTANT)

After SDS-Bionic Stone Coat has been applied, do not use the surface for three days, keeping all liquids and objects off of the surface. On days 4 through 7, light use is allowed, but continue to keep all liquids off of the surface. Liquids will penetrate the surface before the coating has completely cured, which can cause a blister in the coating.

Days 8 and Beyond

On day 8, curing is complete and the SDS-Bionic Stone Coat surface is ready for normal use. It is designed to be a barrier against moisture intrusion, food and beverage acid etching, and stains for up to 8 hours. Longer exposure to these harmful items without cleaning them off would be lack of normal care and can eventually damage the surface. SDS Stone Coat is designed to provide some protection against Vinegars, as well, but these need to be cleaned up as quickly as possible or within 1 hour.

Cleaning

Use SoSafe Spray Away Concentrate with warm water and a soft cloth or sponge to clean up after spills. Always wipe up spills and standing water as soon as possible to properly care for the coating. Although SDS-Bionic Stone Coat is scratch resistant, it is not scratch-proof. Do not use abrasive cleansers or abrasive scouring pads. Paint can be removed with acetone without damaging the coating. SDS-Bionic Stone Coat does not require any additional waxing or protection.

Limited 5 Year Warranty

SDS Products guarantees SDS-Bionic Stone Coat to be defect free. Any material that is proven to be defective will be replaced in a like quantity by the manufacturer within 5 years of date of purchase with proof of purchase receipt, and provided it has been applied according to the instructions on container and data sheet along with other related guidelines posted at sds-bionic-worldwide.com. This warranty only extends to the owner of the property upon which the product is applied and is non-transferable. Any warranty claim must be made in writing and sent to Seller with supporting materials and access to the property for inspection and testing as requested by Seller. Seller will thereafter provide replacement product for product found to be defective. Warranty is for manufactures defect only and does not cover wear and tear. The seller will provide 100% replacement of product found to be defective for the first 2 years from date of purchase and provide prorated reimbursement for product for the remaining 3 years until year 5. This warranty is given in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. The remedy stated herein is an exclusive remedy and Seller shall not be responsible for any other damages, including labor or any incidental, consequential, special or punitive damages, whether based on breach of express or implied warranty, negligence, strict liability or other legal theory.