

DESCRIPTION: Ultra Porous - RS500 was developed for protecting extremely porous stone, concrete, masonry, stucco, cast stone, mortar grout joints, plaster and other very porous substrates. Ultra Porous prevents saltwater erosion, resists water based stains, and weatherproofs and protects. RS500 will also enhance and bring out the colors in most stone curing with a natural matte finish. RS500 contains the highest concentration/percentage of silicones in the industry making it perfect for extremely porous stone such as limestone, moss rock and sandstone. It is also ideal for bringing out the colors in flagstone and other multi colored stone such as travertine and slate.

It is non-yellowing, transparent, easy to apply and cures rapidly. Immediately upon application it begins molecularly bonding with the material upon which it is applied the union of which forms a clear, durable, water resistant, permanent, seamless, polymeric matrix.

Because the matrix formed by RS500 contains a significantly higher percentage of “silicone” it forms a unique dense, strong barrier. The various silanes and siloxanes (silicones) have a small molecular structure which also facilitates deep penetration. RS500 is designed to repel water, salts and other minerals in water, pool chemicals, and diluted acid washing. An Ultra Porous RS500 treated surface will inhibit and resist penetration for the life of the matrix. Because the matrix is a union of RS500 and the material it becomes part of the material and will not separate or tear from the surface. Always test RS500 in a small area prior to application.

FEATURES AND BENEFITS: RS500 is a durable, exceptionally long lasting; deep penetration formulation that cures with a matte finish preserving the natural look of the stone. It provides exceptional coverage on porous substrates, is long lasting, has strong resistance to UV rays; fast drying and powerful bonding are more of exceptional properties of this sealant.

RS500 was designed for extremely porous substrates but is often used on denser materials/stone to achieve enhancing color effects.

RS500 prevents saltwater erosion. It weatherproofs, protects, and preserves rock and masonry patios, pool copings, walls, walk ways, waterfalls, and other landscaping structures especially porous surfaces.

Ultra Porous RS500 will resist many stains and make the removal of many stains much easier - it will darken most materials bringing out the vibrant colors - always test a small area for color change before applying.

- Prevents salt water erosion, resistant pool chemicals
- Extremely strong beading - breathable
- Weatherproofs – excellent water based stain resistance
- Enhances and brings out colors
- Works with single coat or multiple coats
- Easy, simple application – can be applied with pump up sprayer, paint roller or brush
- Works with single or multiple coats
- Deep penetration molecular bonding

- Exceptionally long lasting; up to five years
- Perfect for limestone, sandstone and other extremely porous substrate
- Impervious to immediate rainfall
- Rapid drying – dries in 30-40 minutes at 70 degrees, then ready for pedestrian or vehicle traffic
- Resistant to pool chemicals
- Re-sealable
- Prevents UV damage; will not yellow
- Ready to use, no mixing, no thinning

INSTALLATION

SUBSTRATES AND SURFACES: RS500 preserves rock and masonry patios, pool copings, patios, walls, walk ways, unglazed tile floors, waterfalls, bathrooms and showers. Use on previously coated or uncoated, vertical or horizontal, interior or exterior surfaces such as natural (flagstone, moss rock, cantera, travertine, slate), and artificial stone, concrete products, Mexican tile, unglazed tiles, brick, aggregate, grout, mortar joints, masonry, stucco, cast stone and wood; can be used around pools, fountains, showers etc. RS500 will slightly darken to darken most stone and materials.

ALWAYS TEST each type of surface for penetration, appearance and protective ability before overall application.

- BE SURE to test if application area has been sealed before (another product) for product compatibility.
- BE SURE test area and application area are dry before application. Test area and the surface to be treated can be damp, damp is defined as touching with a tissue and tissue does not get wet.

If the area to be treated has been underwater for long periods such as a waterfall or the backside of the substrate is adjacent to water 24 – 48 hours will be necessary. If unsure of substrate moisture content, test with a moisture meter.

PREPARATION: Protect passersby, building occupants, people, vehicles, property, plants, painted surfaces, windows and all non-masonry surfaces from product, residue, splash, fumes and wind drift. Use polyethylene or other proven protective material. Surface to be treated must be clean and dry. Remove dirt, oil, grease, paint, waxes, efflorescence and surface sealers. Ensure fresh air entry and cross ventilation during application and drying. Extinguish all flames, pilot lights and other potential sources of ignition during use and until all vapors are gone.

CLEANING THE SUBSTRATE: Be sure the area to be treated is clean and free of dust, removable stains, rock particles, leaves, etc. Power washing the area to be treated is the preferred cleaning method. RS500 can be applied as soon as the surface dries. Temperature, humidity and substrate porosity determine the length of drying time between power washing and sealant application. Lower temperatures or high humidity slow

evaporation; porous substrates absorb more water and consequently take longer to dry.

- Pressure wash using the minimum amounts of water required to clean the surface – avoid saturation
- Immediately blow dry all water from surface,
- Let dry for 1- 2 hours or until surface appears and feels dry.

APPLICATION: Before applying read all sections above; do not dilute or alter; RS500 is for interior and exterior application. **ALWAYS TEST** a small area of each surface to confirm suitability and desired results before starting overall application. Test with the same equipment that will be used in application.

General Horizontal Application

- Apply an even saturation coat of RS500 with either a brush, roller, or pump up sprayer; an inexpensive pump up sprayer is recommended for application.
- Work in sections. Saturate a section with a single coat. When applied to a dry surface the surface will initially be wet then as product is absorbed it will turn to darker color and over a short period of time return to a color slightly darker, richer than the original color.
- Depending on the porosity of the stone additional applications may be necessary; apply subsequent applications once the prior application has been absorbed. As long as the prior coat continues to be absorbed, additional coats may be applied.
- Do not apply a second or multiple applications to glazed or hard surface materials without testing first.
- BE SURE to remove excess product and any puddling that may have occurred in depressions with brush, roller, cloth or blower.
- Repeat process for other sections.
- If desired, additional coats can be applied at later times, I.E. a month, a year, etc.
- Protect from rain for one hour after application.

General Vertical Application

- Same as for Horizontal Application except as follows:
- Apply from the bottom up. Allow a six to eight-inch rundown below the contact point – saturate the surface; vertical surfaces leave less time for penetration.
- Brush out any runs and drips that do not penetrate after a few minutes – these can leave visible drip lines if allowed to dry.

SURFACE AND AIR TEMPERATURE

Surface and air temperature play key roles in a successful application.

- Ambient air temperatures ideally should be 50 - 95° F (10-35°C); Temperatures above 95°F are marginal, that is the carrier will evaporate too fast not allowing the active silicone to chemically react with the substrate **AND CAN DEPOSIT A WHITE FILM ON THE SURFACE.**
- When surface temperatures are too hot, chemical solvent elements of the product called the carrier will flash off (evaporate) too fast and preventing the remaining product elements to form an adequate bond

which can lead to a shorten product life cycle. Typically surface temperatures above 90° F can create this situation.

- Where ambient temperatures typically reach above 90°F in the afternoon, application should be scheduled for the morning where it will be cooler. Hand held surface temperature reading devices are inexpensive and eliminate guess work.
- Air temperature below 55°F will cause the product to cure slower increasing the probability of less than adequate bonding.
- Drying time will be extended or shortened depending on the temperature and humidity.

SURFACE DRYNESS - HUMIDITY

Moisture plays a key role in activating Ultra Porous. If the relative humidity is below 35% mist or lightly spray water over the area to be treated. Blow off excess water so there is no pooling – RS500 will float on water and not bond. Applying Ultra Porous to a damp surface will not affect the curing process and in low humidity areas will both help and hasten curing.

COVERAGE AND COATS

Application rates for natural stone, tile, grout, concrete, and masonry will vary depending on the porosity of the substrate to be treated. Some areas within some stones will absorb more quickly than other areas.

Approximate Coverage Per Application:

- Low (denser) 500 sq. ft./gal; Medium Porosity 250 - 350 sq. ft./gal
- High Porosity (very porous) 200 – 250 sq. ft./gal

Reapplication: Reapply every three to five years for most exterior applications.

PACKAGING

- 1 Gallon (3.79 Liter) Units
- 5 Gallon (18.9 Liter) Units

LIMITATIONS

- Limited shelf life – remains storage stable for approximately 12 months in sealed containers.
- It is not compliant with the following: California Air Resources Board SCM Districts, South Coast Air Quality Management District, Maricopa County, AZ. Northeast Ozone Transport Commission,

Manufactured and marketed in compliance with, USEPA AIM VOC regulations (40 CFR 59.403)

CAUTION HARMFUL OR FATAL IF SWALLOWED. EYE, SKIN AND RESPIRATORY IRRITANT.

If swallowed DO NOT induce vomiting. Call physician immediately. In case of: Eye contact - flush with large amounts of room temperature water for 15 minutes. Skin contact- wash thoroughly with soap and water. Irregular or stopped breathing-administer oxygen, give artificial respiration. Get medical attention (immediately). Do not

breath vapors or spray mist. Wear respirator approved by NIOSH. (NIOSH/MSHA TC 23C or equivalent).

FOR EXTERIOR & INTERIOR USE ~ Use with adequate Ventilation

Keep Out of Reach of Children

WARRANTY: The information and recommendations made are based on our own research and the research of others, and are believed to be accurate. However, no guarantee of their accuracy is made because we cannot cover every possible application of our products, nor anticipate every variation encountered in natural stone and masonry surfaces, job conditions, and methods used for application. The purchasers shall make their own tests to determine the suitability of such products for a particular purpose.

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