

**DESCRIPTION:** RockSteel RS100 is a field proven, quality product where salt water protection, stain protection, fast drying, and little or no color change are desired properties. RS100 has been used by professional sealant companies for almost a decade. RS100 is a ready to use, solvent based, deep penetrating, high coverage, extremely long lasting organo-silicon polymer for protecting natural stone, concrete, grout and masonry surfaces. It is non-yellowing, transparent, and easy to apply and cures rapidly. Immediately upon applying RS100 begins molecularly bonding with the material upon which it is applied the union of which forms a powerful, clear, durable, water resistant, permanent, seamless matrix.

The polymeric matrix is a barrier that is designed to repel water, salts and other minerals in water, pool chemicals, and light acid washing. A rockSteel treated surface will inhibit and resist penetration for the life of the matrix. Since the matrix is a union of rockSteel and the material upon which it was applied it becomes part of the material making it extremely durable and will not separate or tear from the surface.

**FEATURES AND BENEFITS:** RS100 prevents saltwater erosion. It weatherproofs, protects, and preserves stone, masonry patios, pool copings, walls, walk ways, waterfalls, and other landscaping structures. RS100 is a durable, exceptionally long lasting: deep penetration formulation; cures with a natural, matte finish preserving the natural look of the stone; provides exceptional coverage, has strong resistance to UV rays; fast drying and powerful bonding are more of exceptional properties of this sealant.

- Prevents salt water erosion, resistant pool chemicals
- Extremely strong beading
- Weatherproofs – excellent water based stain resistance
- Easy, simple application – can be applied with pump up sprayer, paint roller or brush.
- Preserves the natural look of the stone on most substrates
- Works with single coat or multiple coats
- Deep penetration molecular bonding
- Exceptionally long lasting; up to five years
- Rapid drying – dries in 30-40 minutes at 70 degrees, then ready for pedestrian or vehicle traffic
- Re-sealable – no stripping required
- Once cured RS100 is safe for use in food preparation areas, on counter tops, etc.
- Prevents UV damage; will not yellow
- Ready to use, no mixing, no thinning

#### **INSTALLATION**

Use RS100 indoors and outdoors; use in and adjacent to swimming pools, waterfalls, fountains, pool copings and

wet areas; use on patios, grout and unglazed tile floors, kitchens, bathrooms and showers.

**SUBSTRATES AND SURFACES:** 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. RS100 can slightly darken some stone and materials; RS100 is breathable; new concrete can be treated immediately and will continue to cure and will also be protected from rain/water entry.

**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. RS100 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; RS100 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 RS100 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 its original natural 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.
- 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 RockSteel. 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 – RS100 will float on water and not bond. Applying RockSteel 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) 750 sq. ft./gal; Medium Porosity 350 sq. ft./gal

High Porosity 200 – 350 sq. ft./gal

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

#### **PACKAGING**

- 1 Gallon (3.79 Liter) Units 7.85 Lbs
- 5 Gallon (18.9 Liter) Units 39,25 Lbs

#### **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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