

## **DESCRIPTION:**

TSS100 is an industry tested, quality sealant that protects against salt water erosion and staining. It is a user friendly, solvent based silicon polymer that infiltrates deep into the surface, protecting natural stone, grout, concrete and masonry surfaces. TSS100 comes ready to use, with a fast curing process that will leave you with a transparent barrier that won't yellow over time. Once applied, TSS100 forms a molecular connection with the surface material, forming a clear, powerful, water resistant bond which will act as a lasting barrier against water, pool chemicals, basic acid washing, salts, and other minerals found in water.

## **FEATURES AND BENEFITS:**

TSS100 has many benefits, including:

- Weatherproofing
- Preventing saltwater erosion
- Preserving the stone to which it is applied
- Exceptionally long lasting
- Curing with a natural, matte finish
- Perpetuating the natural look of the stone or masonry it is applied to
- Strong resistance to extreme weather and UV rays
- Pool chemical resistance
- Simple application
- Rapid drying time
- Won't need to be stripped to re-seal
- Once cured, safe for use in food preparation and consumption areas

## **INSTALLATION:**

TSS100 can be applied to either indoor or outdoor surfaces, such as stone waterfalls, swimming pools and surrounding areas, fountains, patios, grout, natural stone tiles, showers, bathroom floors and counters, kitchens, etc.

## **SUBSTRATES AND SURFACES:**

TSS100 can be used on either un-adulterated or previously coated surfaces, whether vertical, horizontal, indoors or outdoors. Use TSS100 on surfaces such as:

Moss rock, Flagstone, Travertine, Slate, Cantera Stone, Concrete, Unglazed tile, Aggregate, Grout, Brick, Masonry, Stucco, Mortar joints, Cast stone, Artificial stone and Wood.

## **ALWAYS TEST!**

TSS100 is a quick drying, translucent sealant, but may slightly darken some stones and materials. It is important to test individual surfaces for penetration, protective qualities, and appearance before committing to a blanket application. To ensure proper testing, make sure to:

1. Test if surface area has been sealed previously to ensure product compatibility.
2. Ensure that the test area and application area are completely dry. This can be done by touching a tissue to the surface. If the tissue comes back completely dry, you should be good to go.

If the surface area to be sealed with TSS100 has been underwater for long periods of time (such as a waterfall or pond) or the backside of the surface is adjacent to water, a drying time of 24 to

48 hours will be necessary. If you are unsure of the surface moisture content, test the area with a moisture meter.

### **PREPARATION:**

When preparing to use TSS100, it is important to take some cautionary measures. Make sure that the surface to be treated is clean and dry. Remove all dirt, debris, oil, wax, paint, grease, and efflorescence (salt build-up) from the application area. Power washing the application area is the best way to ensure a clean, even coat; however, make sure that the area is completely dry before application. Ensure that you are protecting all building occupants, passersby, property, plants, vehicles, painted surfaces, windows and all non-masonry surfaces from product, splash, fumes and wind drift by using polyethylene draping, or some other proven protective material.

Establish a fresh air entry and cross ventilation during TSS100 application and drying time. As TSS PRO 100 is flammable, ensure that all flames, pilot lights, and other possible sources of ignition are fully extinguished prior to application, during application, and until all vapors and fumes are gone.

### **APPLICATION:**

Before applying TSS100, read all preparation, cautionary measures, drying procedures, and limitations. DO NOT alter or dilute product. Always TEST a small amount of the surface to ensure suitability and desired results, making sure to use the same tools and equipment that will be used for overall application.

#### **General Horizontal Application:**

- Apply an even coat of TSS100 with a brush, roller, or pump sprayer. A pump up sprayer is the recommended tool for optimal results.
- Work in sections. Saturate an area with a singular coat. \*Note: Once applied, the previously dry surface will become wet and have a darker appearance. Over a short drying period, the treated surface will return to its original color.
- If additional applications are necessary, apply only after the previous coat has been absorbed completely.
- Do not apply additional applications to hard surface materials or glazed surfaces without first testing.
- Remove any excess product or puddling with a brush, cloth, roller or blower.
- Repeat process for additional sections, one at a time, until entire surface has the desired coverage. Addition coats can be applied directly when surface has dried, or at a later time. If applying additional coats at a later time, repeat all preparation steps.
- Protect from rain and any other water saturation for one hour after application.

**General Vertical Application:** Use the same methods as application for horizontal surface, except:

- Apply from the lowest section of the surface, and work your way up. Allow a 6-8 inch rundown area below the point of contact.
- Fully saturate the surface; vertical surfaces dry more quickly, allowing less penetration time.
- Remove any runs or drips that have not been fully absorbed after a few minutes, as these can leave visible drip marks if left to dry completely.

### **SURFACE AND AIR TEMPERATURE:**

Air and surface temperatures play a crucial role in a successful application. For optimal results, take note of the following:

Ideally, ambient air temperatures should be between 50-95° F (10-30° C). Temperatures above 95° may cause the product to evaporate too quickly, not allowing a molecular bond to form, and can result in a discolored film on the surface. Additionally, air temperatures below 50° F will slow the curing time of the product, increasing the risk of less than adequate chemical bonding. Schedule the application of TSS100 for a time of day when ambient air temperatures fall into the ideal range.

If the surface area is above 90° F, faster than normal absorption may occur, shortening the overall life span of the product.

Drying time may be lengthened or shortened, depending on the temperature and humidity conditions.

**Surface Dryness and Humidity-** Moisture plays an integral role in activating the molecular bond of TSS100. If the relative humidity falls below 35%, lightly spray or mist the entire area to be treated. Remove excess water to avoid puddling—TSS100 will float on the water instead of bonding to the surface area. Applying TSS100 to a slightly damp surface will not affect the curing process, and may hasten curing in instances of low humidity.

### **COVERAGE AND COATS:**

Due to the varying absorption levels or porosity of stone types, some surfaces will absorb TSS100 more quickly than others.

#### **Approximate Coverage Per Application:**

Low Porosity—up to 500 ft<sup>2</sup> per gallon

Medium Porosity—up to 350 ft<sup>2</sup>/gallon

High Porosity—up to 200-300 ft<sup>2</sup>/gallon

### **LIMITATIONS:**

- Shelf life of approximately 12 months when sealed and stored properly.
- Non-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 or Poison Control immediately. In the event of: EYE CONTACT-flush with room temperature water for 15 minutes. SKIN CONTACT-thoroughly wash with soap and water. RESPIRATORY IRREGULARITIES-administer oxygen and seek medical attention immediately. Do not inhale vapors or mist.