

## **DESCRIPTION:**

TSS400 is an industrial strength, high gloss polymer sealant that protects against efflorescence, vehicle fluid, and oils. It is a user friendly, silicon and acrylic combination polymer that penetrates deep into the surface, protecting concrete and pavers, while augmenting the stones rich natural color. TSS400 comes ready to use, with a fast-drying process that will leave you with a transparent barrier against deterioration.

## **FEATURES AND BENEFITS:**

TSS400 has many benefits, including:

- Superior gloss finish that protects and enhances color
- Single coat use
- Extremely resilient and long lasting
- Can be resealed
- Microporous—allows surface to ‘breath’
- Strong resistance to extreme weather
- Resistance to efflorescence
- Resistance to vehicle fluids and many other staining oils and fluids
- Simple application
- Rapid drying time
- Suitable for indoor or outdoor use

## **INSTALLATION:**

TSS400 can be applied to either indoor or outdoor surfaces, such as stone patios, concrete walkways and driveways, pavers, decorative landscaping, in parking lots, etc.

## **SUBSTRATES AND SURFACES:**

TSS400 can be used on either un-adulterated or previously coated surfaces, whether vertical, horizontal, indoors or outdoors. TSS400 is recommended for use on concrete and pavers.

## **ALWAYS TEST!**

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.
3. Ensure that no water has been applied, or rainfall has occurred for at least 24-48 hours prior to application.

If the surface area to be sealed with TSS400 has been underwater for long periods of time (such as a waterfall or pond) or the backside of the surface is adjacent to water, additional drying time will be necessary. If you are unsure of the surface moisture content, test the area with a moisture meter.

## **PREPARATION:**

When preparing to use TSS400, 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. Allow 24 hours of drying time after a heavy rainfall, and let new concrete cure for a minimum of 28 days 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 TSS400 application and drying time. As TSS400 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.

\*POWER WASHING: Use the minimum amount of water required to achieve a clean surface; avoid saturating the surface. If using a device with a high-pressure nozzle, allow a drying time of at least 24 hours. Blow dry all excess water from the surface area immediately, and allow drying for a minimum of 1 hour. Ensure dryness with a moisture meter if necessary.

### **APPLICATION:**

Before applying TSS400, 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 TSS400 with a brush, roller, or commercial sprayer.
- Work in sections of 50ft<sup>2</sup>. Saturate an area with a singular coat. With a roller, immediately remove excess product from the surface before it dries.
- Repeat procedure for additional sections, maintaining a continuous ‘wet edge’ to prevent overlapping marks.
- Remove any excess product or puddling with a brush, cloth, roller or blower.
- Additional coats can be applied directly when surface has dried (at least 1 hour), or at a later time. If applying additional coats at a later time, repeat all preparation steps.
- Exceeding 3 mils total dry-film build-up may affect overall endurance.
- Let application surface dry completely before polishing or burnishing.
- 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.

**CLEAN UP:** If using the recommended application method of a commercial sprayer, make sure to flush with xylene. Note, xylene will corrode rubber gaskets over time.

### **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 55-85° F (10-32° C). Temperatures above 85° may cause the product to ‘spider’ when using a sprayer. Spidering occurs when higher than ideal temperatures cause the product to evaporate too quickly, and create a web like formation upon leaving the nozzle of the sprayer. If spidering occurs, halt the application. Additionally, air temperatures below 55° F will slow the curing time of the product, increasing the risk of less than adequate chemical bonding. Schedule the application of TSS400 for a time of day when ambient air temperatures fall into the ideal range.

If the surface area is above 85° 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:** TSS400 must be applied to a dry surface. The acrylic contained in TSS400 can turn white if contact is made with moisture during the application or drying times.

**CAUTION:** TSS400 can increase the slickness of a surface. If the area appears slippery after the drying time has elapsed, wait 48 hours and then pressure wash the treated area. This will significantly reduce slickness. If slickness is a concern, pair with TSS SG100 anti-slip grip additive.

### **TRAFFIC:**

Pedestrian traffic may resume 1 hour after drying, Vehicular traffic may resume 2 hours after drying.

### **COVERAGE AND COATS:**

Due to the varying absorption levels or porosity of stone types, some surfaces will absorb TSS 400 more quickly than others. Theoretical coverage should fall at 525ft<sup>2</sup> per gallon at 1 mil dry film thickness.

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

Typical Porosity—150-225 ft<sup>2</sup> per gallon

Non-Porous—225-350 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.

<b>COLOR:</b>	Transparent
<b>GLOSS:</b>	Full
<b>W.T./GALLON:</b>	7.85 lbs/gal
<b>VISCOSITY AT 77° F:</b>	80 KU
<b>SHELF LIFE:</b>	1 Years
<b>SOLIDS BY WEIGHT:</b>	33%
<b>TEMP. RESISTANCE:</b>	225° F
<b>CHEM. RESISTANCE:</b>	Very good
<b>THEORETICAL COVERAGE:</b>	525 sq. ft /gal. @ 1 mil dft.
<b>FLASH POINT:</b>	80° F, TCC
<b>V.O.C.:</b>	4.4
<b>RECOMMENDED D.F.T.:</b>	1-1.5 mils
<b>DRY TIME: @ 77° F., 55% R.H.</b>	To Touch: 10 - 15 minutes Pedistrian: 1 hour; Vehiclular: 2 hours; Recoat: 1 hour
<b>FILM THICKNESS:</b>	Wet: 2.5-4.0 mils; Dry 1.0- 1.5 mils
<b>CLEANING OF EQUIPMENT:</b>	Xylene Flush

**Approx. Shipping Weights**

1 gallons (18.9L)	7.85 lbs.
5 gallon pail (94.5L)	39.25 lbs.

