
DESCRIPTION

Premera T1 SW for stone and wood is a 2 part clear, non-breathable, protective quartz coating ideal for natural and artificial stone, wooden furniture, cabinetry, decorative wooden moldings, bright work on boats, boat rails and pre-finished wooden floor planks and treated or pre-coated wood. Premera T1 SW requires a Part B Catalyst mixed at a 1:1 ratio. T1 protects from etching by providing a superior, long lasting barrier against moisture intrusion, stains, mold, liquid and food acids. Premera T1 SW is available in a gloss, satin or matte finish, making it ideal for use in kitchens, restaurants, bars, tables.

FEATURES

- Long lasting barrier against moisture intrusion, stains, mold, liquid and food acids
- Protects against Scratching/abrasion, moisture, stains, acid etching from most foods or drinks, graffiti, and bird & animal waste damage

TYPICAL USES

- Ideal for natural and artificial stone, wooden furniture, cabinetry, decorative wooden moldings, bright work on boats, boat rails and pre-finished wooden floor planks and treated or pre-coated wood.
- Ideal for use in kitchens, restaurants, bars, tables.
- Can be applied on: Natural stones including: Marble, Limestone, Travertine, Tumbled Marble, Onyx, Artificial cement-based conglomerates including: Travertine, engineered quartz and marble, Any wood finish requiring protection from extreme conditions. Cabinetry, wood furniture, wood moldings, boat rails and bright work, wood bar tops, tables, and window frames.

COLORS

Clear to slight amber to rose (depending on temp and humidity). Always dries clear. Available in a gloss, satin or matte finish.

PACKAGING

1 quarts, 1 gallon buckets, 5 gallon pails, 55 gallon drums, 275 gallon totes

COVERAGE

Recommended Spread Rate:

Wet mils: 4.0-5.0

Dry mils: 2.4-3.0

Limestone & Travertine require 2 coats wet on tack

Over Varnish, and Urethanes

Wet mils: 3.0-4.0

Dry mils: 1.8-2.5

Wood Finishes: 400-525 ft²/gal

Limestone 250-300* ft²/gal

Marble 300-400 ft²/gal

Travertine 250-300* ft²/gal

Tumbled Marble 300-400 ft²/gal

Onyx 300-400 ft²/gal

Polished Marble 300-400 ft²/gal

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

**Requires 2 coats*

STORAGE

Twelve to twenty-four months in factory delivered, unopened drums. Store on pallets and keep away from extreme heat, freezing, and moisture. Store at temperatures between 50 °F and 80 °F (10 °C and 27 °C).

| TECHNICAL DATA (All values @ 77 °F / 25 °C) | US | Metric |
|--|------------------------------|--------------------------|
| Volatile organic compounds (ASTM D2369) | < 0.83 lb./gal | < 100 gm/ liter |
| Theoretical coverage | 250-400 ft ² /gal | 6-10 m ² /lit |
| Specific Gravity of materials (ASTM D792) | 7.36 lbs./gal | 0.88 kg/ liter |
| Shelf life @ 77 °F /25 °C | 12-24 Months | 12-24 Months |
| Flash point - pensky martin closed cup | 77 °F | 25 °C |

| | | |
|---|-------------|-----------|
| Application Temperature | 45 – 105 °F | 7 – 40 °C |
| PROCESSING PROPERTIES (Under standard lab conditions) | | |
| Mixing Ratio | 1 to 1 | |
| Touch Dry | 2-3 hours | |
| Dry Through | 3-5 hours | |
| Full Dry | 7 Days | |
| <i>Properties and values are highly dependent on equipment, spray gun, mix chamber temperature, pressure and related parameters. Values are slightly different for clear. Variations are possible and expected.</i> | | |

MIXING

SURFACE PREPARATION

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, and other foreign material.

- 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 Stone Shield to the substrate. It is crucial to ensure adhesion of the coating. Remove all surface contamination. T1 will not adhere to silicone.

- Honed Stone Surfaces

On honed surfaces make sure to use the Satin version of Premera T1 SW to maintain the 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.

- Finished Wood Surfaces

Premera T1 SW is designed to be applied over sealed, stained, and finished wood surfaces that have a coat of urethane, varnish, or polyurethane. Surface must be clean, dry, and in sound condition. On newly finished surfaces, lightly sand with 220 grit sandpaper or #000 steel wool, and tack cloth off any remaining dust. On older existing surfaces, remove all oil, dust, grease, dirt, and other foreign material. Then lightly sand and repair any worn or damaged areas and refinish those. Allow to dry and cure then lightly sand with 220 grit sandpaper or #000 steel wool, tack cloth off any remaining dust

APPLICATION

Due to the wide variety of colors and textures of stone and the various methods of application and environments, test Premera T1 SW 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.

Once surface had been properly prepared and is clean, dry, and free of any prior silicon based sealers (Premera T1 SW will not adhere to silicone), mask off any adjacent surfaces to keep them free of drips or accidental coating. Premera T1 SW is available in three finishes: gloss, satin, or matte. 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.

- **Spraying**

(REQUIRES PART B CATALYST)

Premera T1 SW is a 2 component product requiring Catalyst. When surface preparation is complete and surface is dry and free of dust, stir the container of Premera T1 SW thoroughly, as the nano particles will sink to the bottom. These need to be resuspended in order for proper performance of the coating. Then pour the desired amount into a clean container large enough to allow for an equal amount of the Catalyst to be added. Then pour an equal amount of the Catalyst into the container with the Premera T1 SW. Stir both components together 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 Premera T1 SW and 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 smoother. 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.

- **Rolling**

Premera T1 SW is a 2 component product requiring Catalyst. When surface preparation is complete and surface is dry and free of dust, stir the container of Premera T1 SW thoroughly, as the nano particles will sink to the bottom. These need to be resuspended in order for proper performance of the coating. Then pour the desired amount into a clean container large enough to allow for an equal amount of the Catalyst to be added. Then pour an equal amount of the Catalyst into the container with the Premera T1 SW. Stir both components together thoroughly. Approximately every 15-20 minutes, re-stir to resuspend the nano particles during the coating process. Use an ultra smooth high-density white foam roller available at most major home improvement stores. Pour the mixture into a roller pan and completely saturate the roller with the coating. Apply a liberal coat in a cross-pattern; left to right, then up and down, as quickly as possible as coating dries fairly quickly. Do not press down on the roller; just lightly use it to spread the coating. Desired wet film thickness (WFT) is approximately 3.0 to 4.0 mils.

- Brushing

Premera T1 SW is a 2 component product requiring Catalyst. When surface preparation is complete and surface is dry and free of dust, stir the container of Premera T1 SW thoroughly, as the nano particles will sink to the bottom. These need to be re-suspended in order for proper performance of the coating. Then pour the desired amount into a clean container large enough to allow for an equal amount of the Catalyst to be added. Then pour an equal amount of the Catalyst into the container with the Premera T1 SW. Stir both components together thoroughly. Approximately every 15-20 minutes, re-stir to resuspend the nano particles during the coating process. Select the appropriate sized brush width based on the surface area being coated. Using only a good quality China bristle brush, apply mixture liberally in a cross-pattern; left to right, then up and down. To obtain the best results, do not overwork the coating, as it dries fairly quickly. Do not bear down with the brush. Use light strokes using the tip of the brush to smooth out the coating. Desired WFT is 3.0-4.0.

- Finish

Once Premera T1 SW 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 Premera T1 SW 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 T1, 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. Premera T1 SW 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.

INTERRUPTION OF WORK

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

EQUIPMENT CLEAN UP

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

Always wipe up spills and standing water as soon as possible to properly care for the coating. Although Premera T1 SW 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. Premera T1 SW does not require any additional waxing or protection.

MAINTENANCE

- First 7 Days (VERY IMPORTANT):

After Premera T1 SW 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 Premera T1 SW 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. Premera T1 SW is designed to provide some protection against Vinegars, as well, but these need to be cleaned up as quickly as possible or within 30 minutes.

CAUTION

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.

WARRANTIES AND DISCLAIMERS

Nukote Coating Systems International, a Nevada, USA Corporation warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper mixture and application of the components by the applicator. Nukote Coating Systems has no role in the application of the finished polymer other than to manufacture and supply its two components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of plural component equipment and application of plural component materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Nukote Coating Systems International and executed under seal by a company officer.