



**HURRICANE CAT 4**

**SEALER**

**TDS 104**

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**PURPOSE**

<b>Surface Enhancement</b>	<ul style="list-style-type: none"> <li>• Deep color enhancement with gloss finish - the extent is dependent on the surface and dilution level.</li> </ul>
<b>Joint Stabilization</b>	<ul style="list-style-type: none"> <li>• Hardens joint sand which reduces sand washout, weeds and insect infestation</li> </ul>
<b>Surface Protection</b>	<ul style="list-style-type: none"> <li>• Guards against salt, mild acid, alkali and other corrosives</li> <li>• Provides stain resistance which makes cleaning and maintenance easier</li> <li>• Antifungal film protection protects sealer film from mold, moss and algae</li> </ul>

**ADVANCED SEALER PERFORMANCE - 2-PART URETHANE WET LOOK SEALER**

**FEATURES**

<b>Armor Bond</b>	<ul style="list-style-type: none"> <li>• Creates strongest joint stabilization</li> </ul>
<b>T<sup>3</sup> True Tone Technology</b>	<ul style="list-style-type: none"> <li>• Deep color enhancement with gloss finish</li> </ul>
<b>Durable Surface Protection</b>	<ul style="list-style-type: none"> <li>• Ideal for high traffic areas where ultimate durability and superior chemical resistance is desired</li> </ul>
<b>Fungal Guard</b>	<ul style="list-style-type: none"> <li>• Added antifungal protects sealer film from mold, moss &amp; algae</li> </ul>
<b>Breathable, Immediate Application</b>	<ul style="list-style-type: none"> <li>• Will not trap naturally occurring efflorescence and/or moisture</li> <li>• Can be applied on most new, clean and dry surfaces without waiting*</li> </ul>
<b>Dry or Damp, Two Coat Application</b>	<ul style="list-style-type: none"> <li>• Apply to dry surface for optimal joint stabilization performance</li> <li>• When sealing without joint stabilization, can be applied to a dry or damp surface with no ponding or pooling of water present</li> <li>• For optimal performance, apply two coats</li> </ul>
<b>Proprietary Two-Part Water Reducible, Clear Aliphatic Urethane Chemistry</b>	<ul style="list-style-type: none"> <li>• Super concentrated sealer packaged as a kit containing one 5 gallon pail with four gallons of Part A and one gallon container of Part B. Mixing required before use.</li> <li>• Water dilution is required. Two dilution options for desired level of sheen and strength of joint stabilization</li> <li>• Will not yellow under exposure to sunlight</li> </ul>
<b>Film Forming, Water Based, Low VOC Sealer</b>	<ul style="list-style-type: none"> <li>• Consistency of water and milky white in appearance when applied, dries clear</li> <li>• Environmentally friendly, EPA compliant formula</li> </ul>
<b>Temperature Stable</b>	<ul style="list-style-type: none"> <li>• Cured sealer is freeze resistant to -60°F (-51°C) and is stable up to 180°F (82°C).</li> </ul>
<b>PROFESSIONAL USE ONLY</b>	<p><b>Warning:</b> Hurricane Cat 4 is extremely difficult to chemically strip from the applied substrate. Multiple applications of Tidal Wave Sealer Stripper may be required to fully remove sealer from the surface. Use product at own risk.</p>

**SUITABLE SURFACES**

- Concrete & Clay Pavers
- Natural & Manufactured Stone **MUST TEST FIRST\***
- Travertine
- Flat and Stamped Concrete
- Segmental Retaining Wall Blocks
- Concrete Walls
- Exposed Aggregate
- Not recommended for marble, granite, ceramic tile and polished, honed or high gloss surfaces as they do not have enough surface texture to absorb the sealer

**PERFORM A TEST IN A SMALL AREA TO VERIFY PERFORMANCE AND APPEARANCE BEFORE APPLYING.**

**\*Due to the variability and physical make-up of natural stone this step is required to verify desired performance and appearance.**

## COVERAGE PER GALLON ONCE MIXED & DILUTED

APPLICATION	SQ FEET	SQ METERS
Sealing With Joint Stabilization	80-120	7.4-11.1
Sealing Only Without Joint Stabilization	150-250	13.9-23.2

Coverage per gallon once mixed and diluted. Single application. Actual coverage may vary depending on type, age, condition, joint size and porosity of the surface, application method and other local conditions such as temperature. For more uniform coverage, a second coat should be applied as soon as practical after the first application has visually cleared and is dry to the touch, which is usually one hour.

## SURFACE PREPARATION

- **Test First:** Test first on a small inconspicuous area to determine suitability and if desired results are achievable with this product on your specific surface. (Caution: product is difficult to remove.)
- **\*New Concrete, Mortar, Grout or Overlays:** It is recommended to wait 7 days after installation to allow for curing before sealing with Hurricane CAT 4 to ensure optimal performance.
- **Clean Surface:** Surface should be thoroughly cleaned and prepared with Trident’s cleaners. It should be free from oil, dust, loose material, and previously applied sealer other than Trident’s Hurricane CAT 4 sealer. Kill and remove growth of any mold, mildew, fungus or algae. Thoroughly rinse all cleaner residue prior to sealing.
- **Joint Stabilization Preparation: Surface must be dry for ease of installation.** For optimal joint stabilization, the paver joints should be no more than 3/4” wide and filled with dry correctly graded joint sand that meets the ASTM C144 standard. Compact or vibrate surface after sweeping sand into joints to minimize air voids. Top level of sand should be 1/8” below the bottom of chamfer edge or on non-chamfered surfaces 1/8” down from top of surface. Do not use wet joint sand. It will severely diminish joint stabilization.
- Prior to sealing, use a **leaf blower to remove dust, debris and fine sand particles** from the surface.
- **Cover/Protect** nearby landscape, vehicles and buildings from overspray during application.

## APPLICATION CONDITIONS

- Apply when day and night temperatures are between 45°F - 95°F. To cool hot surfaces without joint stabilization, mist with water without ponding or pooling prior to applying Hurricane CAT 4.
- Allow surface to dry for a minimum of 24 hours after cleaning/rain before sealer application with joint stabilization.
- Without joint stabilization, Hurricane CAT 4 can be applied to a damp surface, no pooling/ponding of water present.
- Avoid windy conditions to keep sealer spray from drifting.
- Excessive applications can cause surface to become slippery. Some surfaces may require an anti-slip additive to increase friction.

## FULL KIT HURRICANE CAT 4 MIXING INSTRUCTIONS

Hurricane CAT 4 is a two-part product that comes packaged in a kit containing one five gallon pail with 4 gallons of Part A and one gallon container of Part B.

### Tools Needed:

- Variable Speed Drill
- Paddle Mixer

### Mixing Instructions:

Blend the container of Part B into the pail containing Part A with a drill and paddle mixer on low speed for 1-2 minutes. Do not whip air into the mixture.

**POT LIFE:** Hurricane CAT 4 Mixture (combined PARTS A and B) has a pot life of 90 minutes which varies based on temperature and humidity. Do not mix more material than can be used in a 90 minute period. Do not store Hurricane CAT 4 mixture. If less than the entire kit is needed use the Project Coverage Calculators for more information.

## HURRICANE CAT 4 DILUTION INSTRUCTIONS

Before application, the Hurricane CAT 4 Mixture must be diluted with water following one of two recommended dilution rates: **D1 or D2**. Choose the dilution rate that will produce the desired level of joint stabilization, enhancement and sheen. When applying the recommended two coats, the dilution rate of each coat can be the same or different based on desired outcome. See chart below to assist in selecting the appropriate dilution level for the project. The use of any dilution rate other than D1 or D2 is not recommended.

### HURRICANE CAT 4 Dilution Ratio Guide

1st Coat Dilution Rate		2nd Coat Dilution Rate		Joint Stabilization Strength	Enhancement Level	Sheen Level
D1	<b>OPTIMAL PERFORMANCE</b>	D1		Better	Better	Gloss
D1		D2		Better	Better	Semi-Gloss
D2		D1		Good	Good	Semi-Gloss
D2		D2		Good	Good	Satin

#### Tools Needed:

- Variable Speed Drill
- Paddle Mixer
- One or Two Clean Five Gallon Pails (Quantity varies based on desired dilution.)

#### 1:1 Dilution Ratio (D1) Yields 10 gallons of ready to use Hurricane CAT 4.

Suitable on all surfaces to create a gloss sheen with optimal joint sand stabilization. Can also be used as a sealer without joint stabilization.

#### Full Kit D1 Dilution Instructions:

1. Before diluting, use the Marking Label as a guide (found on PART A pail), mark D1 on one empty five gallon pail.
2. Pour approximately half of the Hurricane CAT 4 Mixture from the mixture pail into the empty pail. The contents of both pails should be at the D1 line.
3. Fill both pails to the top rib (1.5" down from the top of pail) with water.
4. Using a drill with paddle mixer, mix on low speed for 1–2 minutes. Do not whip air into the dilution.

### Dilution 1 (D1) HURRICANE CAT 4 PROJECT COVERAGE CALCULATOR

TOTAL SQUARE FEET YIELD†		HURRICANE CAT 4		DILUTION	
Sealing with Joint Stabilization*	Sealing Only**	Part A	Part B	Add Water***	D1 Total Volume
1000	2500	4 Gallons	<b>Full Kit</b> 1 Gallons	5 Gallons	10 Gallons
500	1250	2 Gallons	<b>Half Kit</b> .50 Gallon	2.5 Gallons	5 Gallons
250	625	1 Gallon	1 Quart (32 oz)	1.25 Gallons	2.5 Gallons
100	250	.50 Gallon	1 Pint (16 oz)	.50 Gallon	~1.25 Gallon

\* Coverage rate used for joint stabilization - 100 SF per gallon

\*\* Coverage used for sealing - 250 SF per gallon

\*\*\* Add water to make total volume

† Single Application. Coverage may vary depending on the type, age, condition, joint size and porosity of the surface, application methods and site conditions such as temperature.

## 2:1 Dilution Ratio (D2) Yields 15 gallons of ready to use Hurricane CAT 4.

Suitable on all surfaces to create a satin/semi-gloss sheen and great joint sand stabilization. Can also be used as a sealer without joint stabilization.

### Full Kit D2 Dilution Instructions:

1. Before diluting, use the Marking Label as a guide (found on PART A pail), mark a D2 line on two empty five gallon pails.
2. Pour approximately one third of the Hurricane CAT 4 Mixture from the mixture pail into each of the empty pails. Contents of all three pails should be at the D2 line.
3. Fill each pail to the top rib (1.5" down from the top of pail) with water.
4. Using a drill with paddle mixer, mix on low speed for 1 –2 minutes. Do not whip air into the dilution.

## Dilution 2 (D2) HURRICANE CAT 4 PROJECT COVERAGE CALCULATOR

TOTAL SQUARE FEET YIELD†		HURRICANE CAT 4		DILUTION	
Sealing with Joint Stabilization*	Sealing Only**	Part A	Part B	Add Water***	D2 Total Volume
1500	3750	4 Gallons	Full Kit 1 Gallons	10 Gallons	15 Gallons
750	1875	2 Gallons	Half Kit .50 Gallon	5 Gallons	7.5 Gallons
375	940	1 Gallon	1 Quart (32 oz)	2.5 Gallons	3.75 Gallons
150	375	.50 Gallon	1 Pint (16 oz)	1.25 Gallon	~2 Gallons
100	250	1 Quart	.50 Pint (8 oz)	2.5 Quarts (80 oz)	~1 Gallon

\* Coverage rate used for joint stabilization - 100 SF per gallon

\*\* Coverage used for sealing - 250 SF per gallon

\*\*\* Add water to make total volume

† Single Application. Coverage may vary depending on the type, age, condition, joint size and porosity of the surface, application methods and site conditions such as temperature.

## APPLICATION TOOLS

- Low pressure, high volume sprayer
- Slit foam roller
- Foam squeegee for joint stabilization

## APPLICATION INSTRUCTIONS

Hurricane CAT 4 is designed for a two-coat application. Apply the 2nd coat after 1st coat has dried to the touch.

### Sealing with No Joint Stabilization: Spray & Back Roll Application

- To apply, hold sprayer nozzle perpendicular to the surface, spray and overlap each spray pass. Saturate the surface to ensure proper coverage. Do not apply too thick to avoid air bubbles in the sealer film.
- Back-roll with a slit foam roller to eliminate any pooling and to even out sealer. Interior applications can be carefully applied by slit foam roller only taking care to not roll back and forth excessively.
- Second coat should be applied as soon as practical after the first application has visually cleared and is dry to the touch, which is usually within one hour. Second application must be applied prior to full cure (See 'Dry Time' for more information.)

**NOTE:** See next page (page 5) for instructions on sealing with joint stabilization.

## APPLICATION INSTRUCTIONS (continued)

### Sealing with Joint Stabilization: Flood Coat & Squeegee Application

- Follow coverage for joint stabilization.
- Spray sealer to cover surface and flood joints ensuring proper sand penetration for stabilization.
- Use a foam squeegee to direct excess sealer into the joints. On an uneven surface, it is recommended to then back roll with a foam roller to even out the sealer and eliminate pooling.
- Second coat should be applied as soon as practical after the first application has visually cleared and is dry to the touch, which is usually within one hour. Second application must be applied prior to full cure (see Dry Time for more information).

**NOTE:** See page 4 for instructions on sealing without joint stabilization.

## DRY TIME

- Surface will be dry to the touch in 1-2 hours assuming 65-85°F at 50% relative humidity. Low surface or air temperature will extend dry times.
- Protect the surface from dust, rain, condensation, and traffic while drying.
- Full cure will take 24 – 36 hours depending on weather and site conditions.
- Once surface has visually cleared and dried to the touch, area can be open to foot traffic in 24 hours and vehicular traffic in 48 hours depending on weather and site conditions.

## CLEAN UP

For tools and equipment, use soap and water before product is allowed to dry.

## MAINTENANCE

Sealed surfaces should be properly maintained to get the best long-term performance from both the pavement and the Hurricane CAT 4 sealer.

- Keep surface clear of buildup of dirt, grime and stains by rinsing with cold, clean water.
- If staining of surface does occur, Trident Sealers are compatible with Trident's Cleaners which can be used to remove general dirtiness, organic and inorganic stains like oils, food and beverages and mineral deposits from the surface.
- Test cleaners in inconspicuous area prior to cleaning.
- Be sure to check dilution rates for all cleaners to determine if they are ready to use or to determine appropriate dilution rate especially for sealed surfaces.
- Efflorescence should be removed using Trident's White Water efflorescence cleaner and a pressure washer, in conjunction with agitation from a natural fiber brush. Care should be taken to ensure that excessive pressure is not utilized, as it may erode joint sand and could damage the surface itself.
- Thoroughly rinse all cleaner off the surface before sealing.

## RE-APPLICATION

Re-application may need to be carried out every 3 - 5 years depending on the type of surface and environmental/site conditions.

## PACKAGING

Hurricane CAT 4 is sold as a kit containing one five gallon pail with 4 gallons of Part A and one gallon container of Part B.

## STORAGE

- Store in a cool, well-ventilated place
- Keep container tightly closed when not in use
- Do not allow to freeze

## SHELF LIFE

1 year from manufacture date when stored in unopened containers (50°F - 80°F)

## POT LIFE

90 minutes at 75°F

## VOC CONTENT

<50 g/L

## PRECAUTIONARY INFORMATION

- **KEEP OUT OF REACH OF CHILDREN**
- Use in a well ventilated area
- Wear protective gloves, clothing, face and eye protection
- Wash thoroughly after handling

## EMERGENCY & FIRST AID MEASURES

- **IF SWALLOWED:** Call a POISON CENTER or doctor if you feel unwell.
- **IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation occurs. Take off contaminated clothing and wash before reuse.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation occurs.
- **IF INHALED:** Call a POISON CENTER or doctor if you feel unwell.
- **IN CASE OF FIRE:** Use water, water fog, dry chemical, CO<sub>2</sub>, or alcohol resistant foam to extinguish.

**See Safety Data Sheet for complete information.**

## LIMITATIONS

Protect sealer from freezing and store in a cool place when not in use. In winter, keep in heated area. On new concrete wait a minimum of 7 days, to allow the surface to cure, before sealing. This sealer is not recommended for marble, granite, ceramic tile, and polished, honed or high gloss surfaces as they do not absorb the sealer. Recommended for professional use only. Once applied, Hurricane CAT 4 is extremely difficult to remove. If removal is necessary, multiple applications of Tidal Wave Sealer Stripper may be required to fully remove sealer from the surface. Use at your own risk. A test area is ALWAYS recommended to determine product suitability and compatibility with your specific surface before use and to verify if desired results are achievable. Due to the inherent variability of natural stone and clay products, long term performance may vary. Please consult with Trident prior to sealing if there are concerns. The use of an anti-slip additive is recommended for increased traction on surface inclines or around consistently wet areas such as pool deck surrounds. Do not use below grade or where water is always present. Never try to seal wet or damp surfaces. A minimum air temperature of 40° (5°C) must be maintained for a period of 24 hours prior to application. Surface temperature should not exceed 120°F (48°C) during application. Work should cease in inclement weather (rain or strong wind).

## WARRANTY

Trident warrants its products to substantially conform to its published specifications at the time of purchase. The foregoing is the sole limited warranty applicable to the products. Trident HEREBY DISCLAIMS ALL OTHER WARRANTIES OF ANY KIND OR NATURE, WHETHER EXPRESS, IMPLIED, OR STATUTORY, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY OTHER THAN THE WARRANTY SET FORTH ABOVE. The user is solely responsible for determining suitability of the products for their particular use. While the actual application of this product is out of the control of Trident, it is recommended that the application guidelines be followed completely and accurately. Trident's liability for any damage shall not exceed the purchase price of the product used, and it shall have no liability for consequential, incidental or punitive damages.

