

**Sonneborn®****Waterproofing  
Systems****SONOSHIELD®**

## **TUF-TRAC® AND TUF-TRAC® ACCESSORIES**

Slip-Resistant acrylic coating for asphalt and concrete;  
Tuf-Trac® Crack Filler, Line Striping, and Primer



### **Where to Use Tuf-Trac® and Tuf- Trac® Accessories**

- Asphalt
- Concrete
- Tennis courts
- Playgrounds
- Arenas
- Walkways
- Balconies
- Steps
- Bike paths
- Pedestrian decks
- Recreational areas
- Interior and exterior

### **Features**

- Durable...
- Comes in vivid, permanent colors...
- Resists variable weather conditions...
- Textured surface...
- Ready to use...
- Colors are nonglaring...
- Available in custom colors...
- Water based...

### **Benefits**

- Lasts 3 to 5 times longer than asphalt and coal tar sealers
- Beautifies concrete and asphalt surfaces
- Suitable for both cold and hot climates
- Slip-resistant safety finish
- Nothing to add; just pour and spread
- Ideal for tennis courts
- Wide range of color choices
- VOC compliant

## How to Apply Tuf-Trac® and Tuf-Trac® Accessories

### Asphalt surfaces

**1** New asphalt must weather a minimum of 60 days before applying Tuf-Trac®. Rake out all cracks to remove accumulated sand, mud, and weeds. Thoroughly hose down the surface to remove sand and sediment.

**2** Scrub oil-soaked areas with a strong solution of detergent and hot water. Rinse area thoroughly with clear water, squeegee off excess, and allow to dry 1 to 3 days. When dry, check surface for any dirt or debris. If more than a trace is present, remove it with compressed air or a vacuum.

**3** Patch holes and cracks with Tuf-Trac® Crack Filler.

**4** Press or squeeze patch firmly into place with a putty knife or trowel. Level off with adjacent surface.

**5** Allow a minimum of 24 hours before topcoating. Do not apply in cracks wider than 1/2" (13 mm).

### Concrete surfaces

**1** Floors must be structurally sound, fully cured, clean, and dry.

**2** Holes, crevices, and spalled or disintegrated portions must be properly patched and filled; consult Technical Services for the appropriate concrete repair product.

**3** All oil, grease, dirt, debris, mortar, paint drippings, curing and parting compounds, and other surface treatments such as hardeners or sealers must be removed.

**4** Mechanical surface profiling is the preferred floor preparation method. Mechanically profile the floor to a medium grit sandpaper texture, and remove curing and parting compounds and other surface hardeners and floor coatings. The key is to create a surface profile that will enable the coating to penetrate.

### Priming (concrete only)

**1** Apply Tuf-Trac® Primer at the rate of 250 - 300 sq. ft. per gallon (6.1 - 7.4 sq. m/L). Apply Tuf-Trac® over the primer within 30 minutes while the surface still has a slight tack to it. In shady conditions apply Tuf-Trac® within 4 hours.

**2** To improve the subsequent application of Tuf-Trac® acrylic coating, use approximately 1 - 2 lbs. per gallon (0.12 - 0.24 kg/L) of fine-grain, dry silica sand directly with Tuf-Trac® Primer; lightly broadcast the sand onto the material while it is still wet. This will prevent the roller or squeegee from slipping when Tuf-Trac® is applied.

### Application

**1** Stir Tuf-Trac® well before using. Whenever possible, apply Tuf-Trac® out of direct sun and during the cooler hours of the day.

**2** Tuf-Trac® may be applied using a 3/8" (10 mm) roller cover or wide-blade rubber squeegee. Dampen the squeegee or roller before using and shake off excess water.

**3** Pour Tuf-Trac® in a continuous stream along one edge of the area to be coated. In hot or sunny conditions, up to 1/2 gallon (1.9 L) of water per 5 gallon (18.93 L) pail may be added to improve the flow and application.

**4** Spread evenly in short windrows. Continue pouring and spreading Tuf-Trac®, overlapping 50% into the wet edge of the previous pass. For roller applications, finish the coating in one direction to prevent shading variations.

**5** Allow the first coat to dry thoroughly before applying a second. For the best finish, apply the second coat at a right angle to the first.

### Tuf-Trac Line Striping

Surface must be clean and dried at least 8 hours after applying Tuf-Trac®. Do not spray line striping; use brush or roller. Mark tennis courts

with 2" wide stripes according to U.S.T.L.A. regulations. Remove tape when line striping has set, but not completely dried. Drying time at 70°F (21°C) and 50% relative humidity is approximately 1 hour for tack free. Allow drying time of 2 hours between coats.

### Drying Time

(70°F or 21°C and 50% relative humidity)

4 hours between coats;  
8 hours for light foot traffic;  
24 - 36 hours for heavy pedestrian traffic.

Application at cooler temperatures or high humidity will greatly extend drying times.

### Maintenance

Tuf-Trac® should be cleaned only after the coating has been cured at least 2 to 3 weeks. To remove dirt, use a solution of water with TSP, ammonia, or a mild detergent. Scrub lightly with a soft bristle brush. Rinse the surface thoroughly with clean water. Do not allow the cleaning solution or rinse water to stand or pond for long periods of time. Severe stains may require a strong detergent.

### Clean Up

Clean tools and equipment with soap and water.

## For Best Performance

- Do not allow Tuf-Trac® to freeze in the container.
- Because Tuf-Trac® is a textured coating, it may stain or pick up dirt.
- Tuf-Trac® will not eliminate structural defects such as major cracks caused by an unsound substrate; tennis courts having widespread surface defects (holes, cracks, pitting, and depressions) should be filled and then leveled with several applications of a bodied asphalt emulsion sealer.
- When the court surface displays major structural problems such as wide cracks, erosion, and heaving, resurfacing will not be sufficient. A two-inch course of blacktop may be required.
- Dry time will be retarded by high humidity or low temperatures. Tuf-Trac® can take up to 2 to 3 weeks for a total cure. Interior applications not subject to direct sunlight may take longer for a total cure.
- Not recommended for driveway applications; avoid heavy tire traffic. Contact with brake fluid, gas, oils, and other petroleum-based products will soften and deteriorate Tuf-Trac®.
- Do not apply Tuf-Trac® when the relative humidity is above 70% or when the surface temperature is below 60°F (16°C) or when it will drop below 60°F (16°C) within 24 hours after application. If rain is expected, protect surface for at least 3 hours.
- Air temperatures above 90°F (32°C) can promote extremely quick dry times. Work quickly to smooth out the coating to avoid leaving roller or squeegee lines.
- Prolonged contact with standing water will temporarily soften Tuf-Trac®. Keep traffic off the softened surface until it has dried. When thoroughly dry, Tuf-Trac® will regain its hardness. Tuf-Trac® is not recommended on surfaces subject to water ponding or excessive wetness.
- When applying Tuf-Trac® over an existing coating, a test application is recommended.
- When applying Tuf-Trac® on dry APA-approved wood decks, first prime with an alkyd oil base primer, then coat with Tuf-Trac®; treated lumber must weather for a minimum of 6 months before primer and Tuf-Trac® can be applied.
- Make certain the most current version of this data guide is being used: call Customer Service (1-800-433-9517) to verify the most current version.
- Proper application is the responsibility of the user. Field visits by ChemRex® personnel are for the purpose of making technical recommendations only and are not for supervising or providing quality control on the jobsite.

## Technical Data

### Typical Properties

Property	Value
Weight solids, %	63
Volume solids, %	47
Viscosity, KU at 77°F (25°C)	120

Tuf-Trac® Line Striping	Value
Solids, %	
By weight	58
By volume	38
Viscosity, KU at 77°F (25°C)	95
Type	Acrylic
Finish	Flat

Tuf-Trac® Primer	Value
Solids, %	
By weight	22
By volume	20
Viscosity, sec. (#1 Zahn Cup)	100
Type	Acrylic

Tuf-Trac® Crack Filler	Value
Net wt. per gallon, lbs.	15.1
Solids, %	
By weight	82
By volume	68
Type	Acrylic latex
PVC, %	57
Low temperature flexibility	
40°F (4°C)	Passes
0°F (-18°C)	Passes
Resistance to high temperature creep, (at 120°F or 49°C)	Excellent
Water resistance	Softens
2 week immersion	
Adhesion to asphalt	Excellent

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

## Order Information

### Packaging

#### Tuf-Trac®

- 1 gallon (3.78 L) cans
- 5 gallon (18.93 L) pails

#### Tuf-Trac® Crack Filler

- 1 gallon (3.78 L) containers

#### Tuf-Trac® Line Striping

- 1 gallon (3.78 L) cans
- 5 gallon (18.93 L) pails

#### Tuf-Trac® Primer

- 1 gallon (3.78 L) cans
- 5 gallon (18.93 L) pails
- Do not allow any Tuf-Trac® product to freeze in the container; do not store below 35°F (2°C).

Shelf life is 2 years when stored in unopened containers under normal conditions.

### Coverage

#### Tuf-Trac®

Coat	Sq. Ft. per Gallon (m <sup>2</sup> /L)		
	Concrete	Asphalt	Aged Asphalt
1st	90 - 100 (2.2 - 2.5)	80 - 90 (2.0 - 2.2)	70 - 80 (1.7 - 2.0)
2nd	100 - 125 (2.5 - 3.1)	90 - 125 (2.2 - 3.1)	80 - 100 (2.0 - 2.5)

**Note:** Coverage rates are approximate. Actual rates will vary depending on surface texture and method of application.

### Colors

Tuf-Trac® is available in 455 colors with the use of 3 tint bases (pastel tint base (white), ultra-deep tint (medium), and neutral tint base). Refer to the Rainbow of Colors® book for more information.

Tuf-Trac® has a matte, textured finish.

#### Tuf-Trac® Crack Filler

- Black

#### Tuf-Trac® Line Striping

- White

#### Tuf-Trac® Primer

- Opaque

### Coverage, cont.

#### Tuf-Trac® Crack Filler

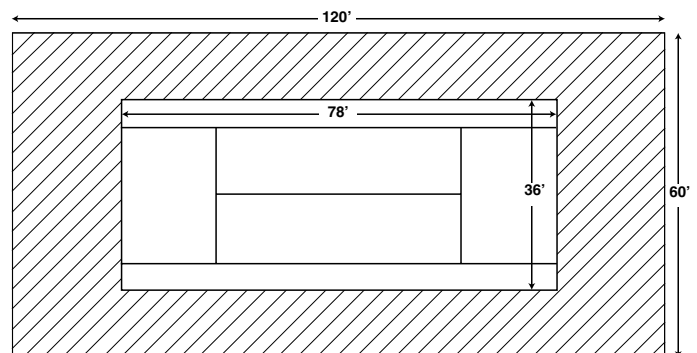
- 1/4" by 1/4" (6 x 6 mm) 300 linear ft. per gallon (24 m/L)
- 1/4" by 1/2" (6 x 13 mm) 150 linear ft. per gallon (12 m/L)
- 1/2" by 1/2" (13 x 13 mm) 75 linear ft. per gallon (6 m/L)

#### Tuf-Trac® Line Striping

- Approximately 1,200 lineal ft. per gallon (96 m/L) at 2" (51 mm) width and 3 dry mils (0.08 mm).

#### Tuf-Trac® Primer

- 250 - 300 sq. ft. per gallon (6.1 - 7.4 m<sup>2</sup>/L) to achieve a 1 dry mil thickness (0.025 mm)



### Tennis Court Square Footage (m<sup>2</sup>)

Apron (shaded area)	4,392 sq. ft. (408)	60%
Playing area	2,808 sq. ft. (261)	40%
Total	7,200 sq. ft. (669)	100%

**Coverage rate:** 80 to 120 sq. ft. per gallon (2.0 - 2.9 m<sup>2</sup>/L) depending on surface and application technique.

## Caution

Tuf-Trac® all colors contain silicon dioxide (quartz), calcium silicate; may also contain titanium dioxide and calcium carbonate; tennis green contains chromium oxide.

### Risks

May cause skin, eye and respiratory irritation. Ingestion may cause irritation. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Use only with adequate ventilation. Keep container closed. Use impervious gloves, goggles and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations.

### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

### Proposition 65

This product contains material listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

### VOC Content

0 g/L or 0 lbs. of V.O.S. per gallon of coating.

## Caution

Tuf-Trac® Crack Filler contains calcium carbonate, calcium silicate, silicon dioxide, barium sulfate.

### Risks

May cause skin, eye and respiratory irritation. Ingestion may cause irritation. Repeated overexposure may cause injury to the kidneys.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Avoid breathing vapors. Use only with adequate ventilation. Keep container closed when not in use. DO NOT take internally. Use impervious gloves, goggles and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. All label warnings must be observed until container is commercially cleaned or reconditioned.

### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

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### VOC Content

0.09 lbs/gal or 8.09 g/L.

## Caution

Tuf Trac® Line Striping contains ethylene glycol, calcium carbonate, silicone dioxide, calcium silicate, titanium dioxide, magnesium silicate.

## Risks

May cause eye, skin or respiratory irritation. Ingestion may cause irritation and central nervous system depression. Repeated ingestion may cause kidney and liver damage. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. DO NOT take internally. Avoid breathing vapors. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations. All label warnings must be observed until container is commercially cleaned or reconditioned.

### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

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### Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

### VOC Content

17.5 g/L less water and exempt solvents.

## Caution

Tuf Trac® Primer contains ethylene glycol, butyl carbitol, butyl benzyl, phthalate.

### Risks

May cause skin, eye or respiratory irritation. Prolonged contact may

cause damage to the skin. Repeated ingestion may cause kidney damage. Reports associate repeated or prolonged occupational overexposure to solvents with permanent brain, nervous system, liver, and kidney damage. INTENTIONAL MISUSE BY DELIBERATELY INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

### Precautions

KEEP OUT OF THE REACH OF CHILDREN. Prevent contact with skin, eyes, and clothing. Wash thoroughly after handling. Avoid breathing vapors/mists. Use only with adequate ventilation. Keep container closed. DO NOT take internally. Use impervious gloves, eye protection and if the TLV is exceeded or if used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state, and local regulations. Empty container may contain hazardous residues. All label warnings must be observed until container is commercially cleaned or reconditioned.

### First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes. SEEK IMMEDIATE MEDICAL ATTENTION. In case of skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Refer to Material Safety Data Sheet (MSDS) for further information.

### Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

### VOC Content

This product contains 250 g/L or 2.1 lbs/gal less water and exempt solvents.

*For medical emergencies only, call ChemTrec (1/800/424-9300).*

## Limited Warranty Notice

Every reasonable effort is made to apply ChemRex® exacting standards both in the manufacture of our products and in the information which we issue concerning these products and their use. We warrant our products to be of good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, CHEMREX® MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, RESPECTING ITS PRODUCTS, and CHEMREX® shall have no other liability with respect thereto. Any claim regarding product defect must be received in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the ChemRex® Technical Manager.



**Sonneborn®**

**ChemRex®**

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