

PRODUCT DATA

7^{07 18 00} Traffic Coatings

TUF-TRAC[®] AND TUF-TRAC[®] ACCESSORIES

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

Description

Tuf-Trac[®] is a water-based VOC-free, slip-resistant acrylic coating for concrete and asphalt.

Accessories it provides a complete coating system for outdoor recreation areas and surfaces with pedestrian traffic.

Yield

Tuf-Trac[®]:

See chart on page 2

Tuf-Trac[®] Crack Filler:

1/4 by 1/4" (6 by 6 mm) crack:
300 linear ft/gallon (24 m/L)

1/4 by 1/2" (6 by 13 mm) crack:
150 linear ft/gallon (12 m/L)

1/2 by 1/2" (13 by 13 mm):
75 linear ft/gallon (6 m/L)

Tuf-Trac[®] Line Striping:

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

Tuf-Trac[®] Primer:

250 – 300 ft²/gallon (6.1 – 7.4 m²/L) to achieve a 1 dry-mil thickness (0.025 mm)

Features

- Slip resistant safety finish
- Excellent UV resistance
- Comes in vivid, permanent colors
- Weather resistance
- Ready to use
- Colors are nonglaring
- Available in custom colors
- Water based

Benefits

- Ideal for pedestrian traffic surfaces
- Resists fading; retains color long-term
- Beautifies concrete and asphalt surfaces
- Offers excellent durability and abrasion resistance
- Nothing to add; just pour and spread
- Ideal for tennis courts
- Offers a wide range of color choices
- VOC compliant; easy to clean up

Packaging

Tuf-Trac[®]:

1 gallon (3.79 L) cans
5 gallon (18.93 L) pails

Tuf-Trac[®] Crack Filler:

1 gallon (3.79 L) containers

Tuf-Trac[®] Line Striping:

1 gallon (3.79 L) cans
5 gallon (18.93 L) pails

Tuf-Trac[®] Primer:

5 gallon (18.93 L) pails

Color

Tuf-Trac[®]:

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 Sonneborn[®] color card for more information.

Tuf-Trac[®] Crack Filler: Black

Tuf-Trac[®] Line Striping: White

Tuf-Trac[®] Primer: Opaque

Texture

Tuf-Trac[®] has a matte, textured finished.

Shelf Life

15 months when properly stored.

Storage

Store in unopened containers in cool, clean, dry area. Do not allow any Tuf-Trac[®] product to freeze in the container; do not store below 35° F (2° C).

Where to Use

APPLICATION

- Pedestrian traffic areas
- Balconies
- Swimming pool decks
- Arenas
- Walkways and stairways
- Tennis courts and playgrounds
- Bike paths
- Recreational areas

LOCATION

- Interior and exterior

SUBSTRATE

- Concrete
- Masonry
- Asphalt

Technical Data

Composition

Tuf-Trac® is a 100% acrylic formula with silicon dioxide (quartz aggregate).

Typical Properties

TUF-TRAC®

PROPERTY	VALUE
Solids, %	
By weight	63
By volume	47
Viscosity, KU at 77° F (25° C)	120

TUF-TRAC® LINE STRIPING

PROPERTY	VALUE
Solids, %	
By weight	58
By volume	38
Viscosity, KU, at 77° F (25° C)	95
Type	Acrylic
Finish	Flat

TUF-TRAC® PRIMER

PROPERTY	VALUE
Solids, %	
By weight	22
By volume	20
Viscosity, sec (#1 Zahn cup)	100
Type	Acrylic

TUF-TRAC® CRACK FILLER

PROPERTY	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, 2 week immersion	Softens
Adhesion to asphalt	Excellent

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

Tuf-Trac® Yield Chart

FT²/GAL (M²/L)

COAT	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)

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

How to Apply

Surface Preparation

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 Service 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.

ASPHALT SURFACES

1. New asphalt must weather a minimum of 60 days before application of 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. Repair 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).

Priming (Concrete Only)

Only required when Tuf-Trac® is subjected to freeze-thaw environmental conditions.

1. Apply Tuf-Trac® Primer at the rate of 250 – 300 ft²/gallon (6.1 – 7.4 m²/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/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 1 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 1 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.

TOP COATING

For heavier foot traffic or stain and dirt resistance, top coat the fully dried and cured Tuf-Trac with Kure 1315 (see form No. 1017913).

TUF-TRAC LINE STRIPING

1. Surface must be clean and dried at least 8 hours after application of Tuf-Trac®.
2. Do not spray line striping; use brush or roller.
3. 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.
4. 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

At 70° F (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

1. Tuf-Trac® should be cleaned only after the coating has been cured at least 2 – 3 weeks. To remove dirt, use a solution of water with TSP, ammonia or a mild detergent. Scrub lightly with a soft-bristled brush.
2. Rinse the surface thoroughly with clean water.
3. 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.
- 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.
- 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 2" course of blacktop may be required.
- Dry time will be retarded by high humidity or low temperatures. Tuf-Trac® can take up to 2 – 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®.
- 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-based 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 versions of product data sheet and MSDS are being used; call Customer Service (1-800-433-9517) to verify the most current versions.
- Proper application is the responsibility of the user. Field visits by BASF personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

Health and Safety

TUF-TRAC®

Caution

Tuf-Trac®: contains silica crystalline quartz; and 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 lbs/gal or 0 g/L, less water and exempt solvents.

TUF-TRAC® CRACK FILLER

Caution

Tuf-Trac® Crack Filler contains calcium carbonate, calcium silicate, silica, crystalline quartz and 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.

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

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VOC Content

0g/L or 0 lbs/gal, less water and exempt solvents.

TUF-TRAC® LINE STRIPING

Caution

Tuf-Trac® Line Striping contains titanium dioxide; calcium carbonate; calcium silicate; talc; silica, crystalline quartz and ethylene glycol.

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.

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

Proposition 65

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VOC Content

0 g/l or 0 lbs/gal, less water and exempt solvents.

TUF-TRAC® PRIMER

Caution

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

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

115.4 g/L or .96 lbs/gal less water and exempt solvents.

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

**BASF Construction Chemicals, LLC –
Building Systems**

889 Valley Park Drive
Shakopee, MN, 55379

www.BuildingSystems.BASF.com

Customer Service 800-433-9517
Technical Service 800-243-6739



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