



2250 E. Tropicana Ave Phone: (866) 977-8833  
 Suite 19-600 Fax: (800) 804-0182  
 Las Vegas, NV 89119 Email: sales@polytuffus.com  
 Web: www.polytuffus.com

**E-TUFF® SAND SLURRY**

*Concrete Repair and Sloping Membrane*

**SYSTEM DESCRIPTION**

**1.01 E-Tuff® Sand Slurry is a fluid applied composite consisting of E-Tuff® 100 basecoat material combined with sand to produce an extended blend used to repair concrete decking and in conjunction with other compatible Flexideck® Systems.**

- A.** The E-Tuff® Sand Slurry utilizes E-Tuff® 100 Mixed Material and filler to create a unique overlay material. **E-Tuff® Mixed Material is a mixture of 4 part E-Tuff® 100 and 1 part of water by volume.** The mixture may be prepared to various degrees of flexibility as required. The mixed viscosities may be varied from free flowing to a vertically trowelable consistency.
- B.** E-Tuff® Sand Slurry may also be used to create slope on concrete, plywood, metal decks and even ship decks.
- C.** E-Tuff® Sand Slurry decking and in conjunction with other compatible Flexideck® Systems will ensure years of service.

**1.02 FEATURES**

- ❖Seamless
- ❖Elastomeric
- ❖Non-Gassing
- ❖Fast-Curing
- ❖For use in California excluding SCAQMD areas, use Topshield® EST (CAL)
- ❖For use in SCAQMD areas, use Enviro-Grip® EP#2(SC), Topshield® EST(SC), Topshield® ALP-150(SC), Staintuff® 3072(SC)

**1.03 TYPICAL USES**

- ❖Walkways / Stairs
- ❖Balconies

- ❖Over Occupied Space
- ❖Sun Decks
- ❖Patios
- ❖Ship Decks

**1.04 PRODUCT INSTRUCTIONS**

**A.** For complete information associated with the application of E-Tuff® Sand Slurry, refer to the general guidelines section of the PSI catalog which describes the surface preparation, job conditions, finishing details and other necessary information.

**APPLICATION**

**2.01 INSPECTION**

**A.** Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section.

**2.02 REPAIRS**

- A.** Apply a polyurethane caulking or E-Tuff® Sand Slurry (see mixing instructions), over all joints, cracks and flashing.
- B.** Bridge the joints, cracks, and flashings with 4" (10 cm) Straight Jacket tape pushing it into the polyurethane caulking or E-Tuff® Sand Slurry with a trowel.

**NOTE:** Using E-Tuff® Sand Slurry as a caulking compound will shorten the curing time appreciably over conventional polyurethane caulks.

Conventional polyurethane caulks must be allowed to dry and/or out-gas before proceeding with a membrane system

**C.** Over reinforcement tape, apply a stripe coat of mixed E-Tuff® Mixed Membrane and taper it onto the adjacent surface.

**D.** Small or hairline cracks may be easily filled using the mixed E-Tuff® Mixed Membrane without the fillers.

Squeegee mixed E-Tuff® over entire area to be repaired.

**E.** Allow the surface to cure for 1 to 2 hours.

**2.03 PRIMING**

- A.** Prime surface with Enviro-Grip® EP#1 or EP#2 at a rate of 1 gallon (mixture of Part-A & Part-B)/300 sq. ft. (0.14 liters/m²). Apply using a brush or phenolic core roller. This will result in 3 dry mils (76 microns) of coating.
- B.** When making repairs, prime only areas to be repaired.
- C.** Avoid excessive traffic on primed surfaces.
- D.** Prime all areas prior to coating.
- E.** Allow PSI primers to become tack free before proceeding.
- F.** Primer is optional on new plywood.
- G.** Steel flashings should only be primed with Enviro-Grip® EP#2.

**2.04 MIXING**

**A.** Care should be taken to use the proper mixing equipment suitable for the consistency and volume you are working with.

**B.** Different mesh sands or rubber granules may be substituted for 30-mesh sand

**C.** Mixing Instructions:

	Thick/ Mortar	Medium	Low Viscosity
E-Tuff® 100	1 part	1 part	1 part
30-Mesh Sand	3 parts	2 parts	1 part
Water	¾ parts	½ parts	¼ parts
Yield	3.9 parts	3.0 parts	2.1 parts

**D.** When using wet sand, reduce water accordingly.

**E.** Viscosity may be varied by varying ratio of sand.

**F.** E-Tuff® 100 Catalyst may be added to shorten cure time.

**G.** Apply E-Tuff® Sand Slurry to substrate using a trowel, notched trowel, or squeegee and spread over the deck.

**H.** Allow E-Tuff® Sand Slurry mixture to cure a minimum of 4 to 8 hours.

### 2.05 COATING APPLICATION

**A.** If coating is delayed, prime before application of next coating.

**B.** Apply Flexideck® System per application specification.

### 2.06 FINISHED SYSTEM

**A.** When applied as directed above, Flexideck® System will provide of superior waterproofing protection.

### 2.07 LIMITATIONS

#### **A. Concrete:**

- 1) The following conditions must not be coated with PSI deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces, asphalt overlays and where chained or stud-tied tires may be used.

2) Concrete must exhibit 3000 psi minimum strength. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

3) New concrete must be cured for 28 days.

4) Concrete cleaning (see general guidelines).

#### **B. Plywood:**

1) The only acceptable grade of plywood is APA rated exterior grade or better.

2) The appearance characteristics of the panel grade should be considered.

3) Plywood should be new or cleaned and sanded (see general guidelines).

**C.** PSI Decking Systems will not withstand rising water tables or hydrostatic pressure on slab-on-grade decks.

**D.** Uncured materials are sensitive to heat and moisture.

**E.** Proper coating application techniques should ensure a deck with no lines or streaks.

**F.** The substrate must be structurally sound and sloped for proper drainage.

**G.** PSI assumes no liability for substrate defects.

### 2.08 JOB COMPLETION

**A.** Equipment should be cleaned with an urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use.

**B.** Field visits by PSI personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

**WARNING: The products in this system contain Isocyanates, Solvent, Epoxy Resin and Curatives.**

---

Please read all information in the general guidelines, product data sheets, system specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data and instructions.

#### **DISCLAIMER**

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.