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E-TUFF® CRACK FILLING

Caulking and Crack Filling Membrane

SYSTEM DESCRIPTION

1.01 E-Tuff® 100 or E-Tuff® Crete Mixed Material alone or in conjunction with various proportions of fine rubber granules may be used as a caulking or crack filling compound which cures faster than conventional urethane caulks. E-Tuff® mixed membrane is a mixture of 4 parts E-Tuff® 100 or E-Tuff® Crete and 1 part 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.

1.02 PRODUCT INSTRUCTIONS

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

B. All products/materials to be used on this system should be purchased from Poly-Tuff Systems International (PSI) or its distributors or approved by PSI. For details on individual product, please refer to Product Technical Data Sheet.

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)

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 PRIMING

A. Prime surface with Enviro-Grip® EP#1, EP#2, or PUR#5 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 Primers to become tack free before proceeding to Coating Application. The point at which the primer is generally discerned as nearly tack free is when the primer passes the thumbprint test. The thumbprint test is defined by when a thumbprint is left in the primer and the primer does not transfer onto the thumb. If the primer has been allowed to remain tack free for more than 12 hours, it is necessary to solvent wipe the primed area and re-prime.

F. Primer is optional on new plywood.

G. Metal flashings should only be primed with Enviro-Grip® EP#2. All metal flashings should be mechanically abraded with an angle grinder and wire brush cup, followed by a rag with xylene solvent wipe to remove loose particles or oil film.

2.03 FILLING CRACKS

A. If the crack is only small or limited to small areas, fill the crack with E-Tuff® Mixed Membrane without mixing with fine rubber granules.

B. For large cracks, E-Tuff® Mixed Membrane may be mixed with fine rubber granules 1 to 2 parts to have desired consistency for filing the crack. While filing the crack, care should be taken not to leave any humps which will show through the finished system. Easy method to avoid humps is to detail the cracks and trowel the Mixed Membrane and rubber mixture right to deck.

C. Use backer rod to stop the material from running through the crack to the bottom.

D. If the surface has numerous cracks, unevenness and/or large surface damage, it may be advisable to trowel entire deck with E-Tuff® Sand Slurry or E-Tuff® Rubber Slurry. Proper primer should be used on the deck before applying slurry.

E. For smaller cracks, it is advisable to spread mixed membrane with a flat squeegee. This will be faster and save labor costs.

2.04 REPAIRS

A. Bridge the joints, cracks, and flashings with 4" (10 cm) Straight Jacket tape pushing it into the Mixed Material with a trowel. Over reinforcement tape, apply a stripe coat of E-Tuff® Mixed Membrane and taper it onto the adjacent surface.

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-ded 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.