



P-TUFF® RUBBER / SAND SLURRY

P-Tuff® Classic with Rubber Granules or Sand to Produce an Extended Blend
Used to Repair Concrete

1.01 DESCRIPTION

P-Tuff® Rubber/Sand Slurry is a fluid-applied composite consisting of P-Tuff® Classic basecoat material combined with rubber granules or sand to produce an extended blend used to repair concrete decking and in conjunction with other compatible Flexideck® Systems.

The P-Tuff® Rubber/Sand Slurry utilizes P-Tuff® Classic Mixed Material and filler to create a unique overlay material. P-Tuff Mixed Material is a mixture of 4-part P-Tuff® Classic and 1 part water by volume. The mixture may be prepared to various degrees of flexibility as required. The mixed viscosities may vary from free flowing to a vertically trowelable consistency.

P-Tuff® Rubber/Sand Slurry may also be used to create slope on concrete, plywood, metal decks and even ship decks. P-Tuff® Rubber/Sand Slurry decking and in conjunction with other compatible Flexideck® Systems will ensure years of service. Please use the correct product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/codes at the place of installation of product.

1.02 FEATURES

- Elastomeric
- Fast Curing
- Non Gassing
- Seamless

1.03 PRODUCT INSTRUCTIONS

For complete information associated with the application of P-Tuff® Rubber/Sand, refer to the General & Safety Guidelines section of the Poly-Tuff Systems International (PSI) catalog which describes the surface preparation, job conditions, finishing details and other necessary information.

All products/materials to be used on this system should be purchased from PSI or its distributors or approved by PSI. For details on individual product, please refer to Technical Data Sheet.

APPLICATION

2.01 SURFACE PREPARATION

Check area of application to ensure that it conforms to the substrate requirements, as stated in the General & Safety Guidelines section. Install a 100-200 sqft (9.30-18.58 sqm) mock up of the system to be installed and approve for aesthetics, color, texture, actual coverage rates and functionality before proceeding.

2.02 REPAIRS

Apply a polyurethane caulking or P-Tuff® Rubber/Sand Slurry (see mixing instructions) over all joints, cracks and flashing.

Bridge the joints and cracks and flashing with 2 3/4" (7-10.14 cm) polyester or polyurethane foam tape pushing the tape into the 20 mil (508 microns) prestripe of the basecoat. NOTE: Using P-Tuff® Rubber/Sand Slurry as a caulking compound will shorten the curing time appreciably over conventional polyurethane caulks as a crack bridging

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

Over reinforcement tape, apply a stripe coat of P-Tuff® Classic mixed material and taper it onto the adjacent surface. For a completely joint and crack free surface appearance, no crack chasing or prestripe is necessary with the use of Super Seal Tape over a primed surface (see Super Seal Tape Technical Data Sheet). Allow the surface to cure for 1 to 2 hours.

Small or hairline cracks may be easily filled using the mixed material without the fillers. Squeegee the mixed material over entire area to be repaired. Allow the surface to cure for 1 to 2 hours.

2.03 PRIMING

Prime surface with Enviro-Grip™ EP#1 or EP#2/EP #2SC at a rate of 1 gallon (mixture of Part-A & Part-B)/300 sqft (0.14 liters/sqm) or 300 sqft/gallon. Apply using a brush or phenolic-core roller. This will result in 3 dry mils (76 microns) of coating. Existing urethane coated surfaces should be primed with Enviro-Grip™ PUR#555. Rough and pin-holed concrete surfaces may require more primer. Discovery of these issues is generally revealed in the mock up. See the Tech-Note Section of the PSI website. Do not allow primer to puddle. Dry roll excess primer with a dry nap roller to pick up excess primer in puddles and overlaps.

When making repairs, prime only areas to be repaired. Avoid excessive traffic on primed surfaces. Prime all areas prior to coating. Allow PSI primers to become tack free before proceeding.

Primer is optional on new plywood. Metal flashings should be sealed with Super Seal Tape prior to the coating application.

2.04 MIXING

Before application, premix P-Tuff® Classic using a mechanical mixer (Jiffy mixer) at slow speed, or if mixing by hand, mix at least for 5

minutes or until a homogeneous mixture and color is obtained. Use care not to allow the entrapment of air in to the mixture.

Optional: Add catalyst (one vial per 5 gallons or 18.9 liters pail) and mix thoroughly until a homogeneous mixture and color is obtained. Catalyst will reduce cure time for cold temperature applications. Depending upon environmental conditions up to 3 vials of catalyst per 5 gallons (18.9 liters) may be used.

Mix pre-accelerated P-Tuff® Classic with water at a volume ratio of 4:1 (4 gallons or 15.4 liters of P-Tuff® Classic with 1 gallon or 3.78 liter of water). For 5 gallons or 18.9 liters of P-Tuff® Classic add 1.25 gallons or 4.725 liters of water. Mix the material thoroughly until water is completely combined with P-Tuff® Classic. Water-catalyzed material is referred as mixed or water-catalyzed material.

Blend P-Tuff® Classic mixed material at the ratio of 6 parts of mix material with 4 parts of rubber aggregate or silica sand by volume. Mix thoroughly until uniform consistency is achieved and slurry becomes homogeneous. Viscosity and consistency of the slurry can be varied by increasing or decreasing volume ratio of rubber or sand aggregate.

Apply P-Tuff® Rubber/Sand Slurry to substrate using a trowel, notched trowel, or squeegee and spread over the deck.

Allow P-Tuff® Rubber/Sand Slurry mixture to cure a minimum of 4 to 8 hours.

2.05 COATING APPLICATION

If coating is delayed, prime with Enviro-Grip™ PUR#555 before application of next coating.

Apply P-Tuff® Rubber Sand Slurry to substrate using a trowel, notched trowel, or squeegee and spread over the deck. Allow P-Tuff®Rubber/Sand Slurry mixture to cure a minimum of 4 to 8 hours.

Refer to individual Systems Description under System Specifications Section of the PSI catalog or website for specific coverage rates.

2.06 COVERAGE RATE

Coverage rates and cure times will vary depending on temperature, relative humidity, surface roughness and porosity, aggregate selection and embedment, and application technique. Coverage rates provided are optimal and are not guaranteed.

2.07 FINISHED SYSTEM

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

2.08 EQUIPMENT CLEANUP

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

2.09 LIMITATIONS

- Uncured materials are sensitive to heat and moisture.
- Proper coating application techniques should ensure a deck with no lines or streaks.
- The substrate must be structurally sound and sloped for proper drainage.

- PSI assumes no liability for substrate defects.

Concrete:

The following conditions must not be coated with PSI deck coating systems or products:

1) On grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool, swimming pool decks, or areas where hydrostatic pressure is or may be present, without the use of Enviro-Grip™ 404FC primer and asphalt surfaces, asphalt overlays without the express written consent of PSI. PSI Deck Coating is not recommended over magnesite, gypsum lightweight and where chained or studded tires may be used.

2) Concrete must exhibit 3000 psi minimum strength. An ICRI CSP 2-3 surface or greater is required for concrete surfaces to be coated.

3) New concrete must be cured for 28 days unless otherwise approved by PSI in writing. New 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. Light broom finished concrete should be power-washed before coating application.

4) Concrete cleaning (see General and Safety Guidelines). Surface preparation may be completed by shotblasting or the use of Poly-Tuff Profile and Etch (PE) cleaner. Peel and adhesion tests are recommended.

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 & Safety Guidelines).

WARNING: The products in this system contain isocyanates, solvent, epoxy resin and curatives.



Compression Test Results of >25,000 psi, ASTM C-579

Sample Id	Dimensions	Maximum Load	Compressive Strength	Failure Mode	Comments
PTSI-SS-1	2.004	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears
PTSI-SS-2	1.999	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears
PTSI-SS-3	2.015	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears
PTSI-SS-4	2.011	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears
PTSI-SS-5	2.006	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears
PTSI-SS-6	2.012	>100kN	>25,000 psi	No Failure	Samples had no defects, splits or tears

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with the PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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 user's 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.

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