1.01 DESCRIPTION
P-Tuff® Sealant E-101 SL is a high performance water-curable interior or exterior joint sealant for use in both moving and non-moving joint applications. P-Tuff® Sealant E-101 SL provides a long lasting, weather tight seal to a variety of common building substrates without the strenuous limitations of joint design by most manufacturers of construction sealants. The sealant may be applied to green or fully cured concrete. The tremendous adhesive strength and modulus of the sealant combined with the water curing method allows the sealant to be applied in depth up to 1:1 width to depth joint ratio and maintain a water-tight seal. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 FEATURES
- Applied at Any Required Thickness
- Bonds to Damp Concrete or Masonry
- Economical
- Excellent Weathering
- Fast Curing
- Highly Flexible over Extreme Temperatures
- Labor Saving
- Meets SCAQMD VOC Requirements
- Meets the Criteria of ASTM C-836 & E-96
- No Mixing
- No Odor
- Non-Gassing
- Primerless on Most Substrates
- Resists Dirt
- User Friendly

1.03 TYPICAL USES
- Block
- Concrete
- Cove Joints
- Curtain Walls
- Expansion Joints
- Masonry
- Parapets
- Plywood
- Pre-Cast Concrete
- Roofing Details
- Siding
- Weather Sealing
- Window Sealing
- Window/Door Frames

1.04 SUBSTRATES
- Aluminum
- Concrete
- Block
- EPD
- Brick
- Foam
- Masonry
- SBS Mod Bit
- Wood
- Metal
- Stone
- Galvanized Metal
- PVC
- Vinyl

1.05 COLOR
Black, Dark Bronze, Limestone, Stone, Tan, Grey and White
Custom colors are available upon request. Minimum quantity required and additional costs may apply.
1.06 PACKAGING
10.1 oz (299 ml) Cartridge: 24 per case, 60 cases per pallet
28 oz (828 ml) Sausage: 12 per case, 40 cases per pallet
2 gallon (7.56 liter) pails
5 gallon (18.9 liter) pails

1.07 JOINT PREPARATION
Joints should be cleaned, dry, and free from all contamination including dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant’s performance.

Joint Width inches (mm)  Joint Depth inches (mm)
1/4 - 1/2 (6-13)        1/4 (6)
1/2 - 3/4 (13-19)      1/4 - 3/8 (6-10)
3/4 - 1 (19-25)        3/8 - 1/2 (10-13)
1 - 2 (25-50)          1/2 (13)

1.08 JOINT DESIGN
Because of the common problems related to failure of horizontal joint design, P-Tuff® Sealant E-101 SL sealant becomes one of the most forgiving products in the construction industry. The installation of the P-Tuff® Sealant E-101 SL Sealant may be designed with a depth to width ratio of 1:1 (joint depth equals joint width). It is recommended that the joint shall be no less than 1/4” wide by 1/4” deep (6 mm x 6 mm). The maximum depth of sealant shall be 3/4”-1” in joints 3/14” to 1” wide (1.9 mm to 2.54 cm). Otherwise, control the depth of the sealant by using a backer rod that is 25% larger than the joint opening at standard temperature. Where the joint configuration will not permit a backer rod, it is recommended that an alternative bond breaker be used. Prevention of three-sided adhesion is necessary through the use of dust free sand, a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal. Joints should be caulked flush.

1.09 SAW AND CONTROL JOINTS
Saw and control joints may be sealed while the concrete is damp or green as long as the joints are clean. Newly sawed joints may be sealed immediately after they are cleaned.

1.10 METAL
Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue. Remove films, coatings and oils with an appropriate solvent such as alcohol.

It is recommended that Kynar-coated substrates be test for adhesion prior to starting the project. Please contact PSI for specific application guidelines and recommendations.

1.11 CONCRETE
Concrete and masonry substrates shall be clean and of solid density prior to the application of the sealant. Concrete and masonry substrates shall be fully cured and dry prior to the application of the sealant. Remove any contamination by mechanical abrasion, sand blasting or power washing.

1.12 WOOD
Wood shall be clean, sound and dry prior to sealant application. Treated wood shall be allowed to weather for six (6) months. Coatings and paint shall be removed (or tested for compatibility) to ensure a proper bond.

1.13 PRIMING
In most instances P-Tuff® Sealant E-101 SL will not require a prime. However, certain applications or substrates, such as Kynar-coated metal, may require a primer to ensure a long lasting bond and weatherproof seal. It is the user’s responsibility to determine the need for a primer. It is recommended that wherever prolonged immersion is anticipated, a primer be used for best performance.

APPLICATION
2.01 APPLICATION BASICS
P-Tuff® Sealant E-101 SL is a one-component, ready-to-use material that requires no mixing or preparation. It is recommended that a quality caulking gun be used to ensure ease of application. Apply when temperatures are above 40°F (4.4°C). When all the joint preparation is complete, cut the plastic nozzle at a 45-degree angle to approximately the size of the joint opening. Begin gunning to fill the joint from the bottom to the surface, ensuring there are no voids or air pockets. Dry tooling is recommended to create a strong mechanical bond against the joint faces. *Do not use P-Tuff® Sealant E-101 SL in temperatures below 30°F (-1.1°C). P-Tuff® Sealant E-101 SL cannot be used in vertical or overhead working conditions without the use of P-Tuff® Insta-Thick powder.

P-Tuff® Sealant E-101 SL may be water-cured in bulk applications by mixing 4 oz of water per gallon. The water-curing ability of the P-Tuff® Sealant E-101 SL will significantly speed the cure of the sealant from 1-2 hours in length.

2.02 FINISHING AND CLEANUP
Wet sealant can be removed using a solvent such as alcohol, or soap and water. Cured P-Tuff® Sealant E-101 SL can be removed by abrading or scraping the substrate. Equipment should be cleaned immediately after use with an environmentally-safe solvent, as permitted under local regulations.

2.03 CURING
P-Tuff® Sealant E-101 SL typically skins over within 15-45 minutes and cures through in 3 to 7 days depending on temperature, humidity and thickness. Water curing is the preferred method when caulking in low temperatures. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time.

P-Tuff® Sealant E-101 SL may be water cured by hand or drill mixing 6 ounces (118 ml) of water per gallon for faster curing (approximately 2 hours). It is recommended that a quality caulking gun be used to ensure ease of application. The material is fast cure and dries in 1-2 hours at 75°F (24°C) and therefore should be mixed in no greater than 2 gallon pails.

2.04 SHELF LIFE AND STORAGE
P-Tuff® Sealant E-101 SL has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.05 LIMITATIONS
• P-Tuff® Sealant E-101 SL should not be used in direct contact with single component, moisture cured urethane coatings without use of an epoxy primer. Sealant shall be cured for 3-5 days prior to any direct coating with water-cured E-Tuff® 100 or P-Tuff® Classic.
• Avoid prolonged contact with skin. Uncured adhesive irritates skin.
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 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, 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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