



P-TUFF® SEALANT R12B (PTS R12B)

A Water-Curable, Membrane Waterproofing Adhesive & Coating

1.01 DESCRIPTION

P-Tuff® Sealant R12B is a fast low modulus, water curable, high performance interior or exterior, elastic, waterproofing membrane adhesive and coating for roofing and waterproofing under Flexi-Ply™ and concealed waterproofing applications. PTS R12B provides a long lasting, weather tight seal to a variety of common building substrates. 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

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

1.03 TYPICAL USES

- Concealed Waterproofing
- Planter Box Waterproofing
- Under Tile Waterproofing
- Coating BUR
- Green Roof Waterproofing
- PVC
- Block and Masonry
- Spalled Concrete
- Waterproofing over Smooth Surfaces and Tile
- Under Concrete
- Sloping Under Tile
- Parapet Walls
- Single Ply Coating
- SBS Mod Bit Roofing
- Expansion Joints
- Pot Hole Filling
- Leveling Uneven Surfaces

1.04 COLOR

Limestone and Grey

1.05 PACKAGING

2 gallon (7.57 liters) and 5 gallon (18.9 liters) pails

1.06 SURFACE PREPARATION

All surfaces should be clean and dry with no contaminates that might interfere with the adhesion of the P-Tuff® Sealant R12B to the substrate and a long lasting weatherproof seal.

APPLICATION

2.01 APPLICATION BASICS

P-Tuff® Sealant R12B is a one-component, ready-to-use material, or

TECHNICAL DATA (Based on draw down films)

Specific Gravity	A-Side: 1.60 ± 0.1
Viscosity at 80°F (26°C)	40,000 cps Brookfield RVTF spindle 4 RPM, 73°F (23°C)
Service Temperature	-25°F to 200°F (-31.7°C to 93.3°C)
Tear Resistance, Die C, ASTM D-1002	150 ± 10 psi (21 ± 3.5 kN/m)
Total Solids by Weight, ASTM D-236	100%
Total Solids by Volume, ASTM D-2697	100%
Hardness, ASTM D-2240 Shore A	30 ± 5
Elongation at Break, ASTM D-412	300-400% ± 50 psi

COMPLIANCES

- ASTM C-920, Type S, Grade NS, Class 25, use NT, T, M, G, A, and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19

water curable when mixed with 4 to 5 ounces of water per/gal. It is recommended that a quality caulking gun be used to ensure ease of application and proper mil thickness. Apply when temperatures are above 40°F (4.44 °C). When all the proper surface preparation is complete, Apply P-Tuff® Sealant R12B adhesive or coating to the pre-determined mil thickness. P-Tuff® Sealant R12B can be used in vertical or overhead working conditions. The P-Tuff® Sealant R12B may be water cured for heavy application above 20 mils (508 microns), or for fast curing applications where weather conditions may change rapidly and fast curing is necessary.

P-Tuff® Sealant R12B may be used as an adhesive for pedestrian areas under Flexi-Flashing materials on vertical and horizontal surfaces. Joints, cracks, rough surface textures, and ponds may be filled with the P-Tuff® Sealant R12B adhesive prior to application of Flexi-Flashing.

P-Tuff® Sealant R12B recommended coverage rates are not less than 30

mils (762 microns) for an adhesive membrane, 30 mils (762 microns) in roof coating applications and 60 mils (1,524 microns) in planter box and below grade waterproofing applications.

2.02 SUBSTRATES

Metal:

Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue by xylene or acetone wipe. Remove films, coatings and oils with an appropriate solvent.

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

Concrete:

New concrete and masonry substrates must be cured 14 days prior to the application of the sealant or coating. Remove any contamination by mechanical abrasion, sand blasting or power washing.

Wood:

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

2.03 CURING

P-Tuff® Sealant R12B, when mixed with water, cures to a firm dense skin in approximately 2 hours at Room Temperature and 50% RH. Faster cure times may occur in high humidity combined with higher temperatures. Likewise, slower cure times may occur in lower humidity and lower temperatures.

P-Tuff® Sealant R12B coating and sealant is slower to cure when used without water, from one to two days.

P-Tuff® Sealant R12B typically skins over within 15-45 minutes and cures throughout in 2-6 hours, depending upon temperature, humidity and thickness. Lower temperatures and humidity prolongs cure time. Higher temperatures accelerate cure time.

2.04 EQUIPMENT CLEANUP

Equipment should be cleaned immediately after use with an environmentally-safe solvent, as permitted under local regulations.

2.05 SHELF LIFE AND STORAGE

P-Tuff® Sealant R12B 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).

2.06 LIMITATIONS

- P-Tuff® Sealant R12B should not be used in direct contact with single component moisture cure urethane coatings without use of an epoxy primer or a sand broadcast over the wet sealant.
- P-Tuff® Sealant R12B 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 eyes.
- In case of contact with eyes, immediately flush with water and call a physician.
- P-Tuff® Sealant R12B should not be used in direct contact with wet or uncured single component urethane sealants.

KEEP OUT OF REACH OF CHILDREN.

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, 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.