



PTS R12

A Water-Curable, Membrane Waterproofing Adhesive & Coating

1.01 DESCRIPTION

PTS R12 is a low-modulus, fast, 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 R12 provides a long lasting, weather tight seal to a variety of common building substrates. Be sure to use the right 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

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

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 COLORS

Limestone and gray

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 contaminants that might interfere with the adhesion of the PTS R12 to the substrate and a long lasting weatherproof seal.

TECHNICAL DATA

(Based on draw down films).

Hardness Shore A, ASTM C-661	30 ± 5 Shore A
Tear Resistance, Die C, ASTM D-1002	150 ± 10 psi
	21 ± 3.5 kNm
Elongation at Break, ASTM D-412	300-400% ± 50 psi
Specific Gravity	1.60 ± 0.1
Total Solids by Weight, ASTM D-236	100%
Total Solids by Volume, ASTM D-2697	100%
Viscosity, at 80°F (27°C)	40,000 cps Brookfield RVFTF
	spindle 4 RPM, 73°F
Service Temperature	-25°F to 200°F
	-31.7°C to 93.3°C
Meets the Criteria of ASTM C-836	
Meets the Criteria of ASTM E-96	

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

APPLICATION

2.01 APPLICATION BASICS

PTS R12 is a one-component, ready-to-use material, or water curable when mixed with 4 to 5 ounces of water per/gal. It is recommended that a notched trowel, or squeegee 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 PTS R12 adhesive or coating to the pre-determined mil thickness. PTS R12 can be used in vertical or overhead working

conditions. The PTS R12 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.

PTS R12 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 PTS R12 adhesive prior to application of Flexi-Flashing.

PTS R12 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

A. 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 Poly-Tuff Systems International for specific application guidelines and recommendations.

B. 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.

C. 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

PTS R12 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.

The PTS R12 coating and sealant is slower to cure when used without water; from one to two days.

PTS R12 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 with an environmentally safe solvent, as permitted under local regulations, immediately after use.

2.05 STORAGE

Store in the original unopened container in a cool dry place at a temperature between 60°F to 95°F (15°C-35°C). Protect unopened containers from heat and direct sunlight. Elevated temperatures will reduce shelf life.

2.06 SHELF LIFE

PTS R12 has a shelf life of one year from the date of manufacture; when stored indoors at a temperature between 60°F to 95°F (15°-35°C) and in the original factory sealed containers.

2.07 LIMITATIONS

- PTS R12 SL 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.
- 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 eyes.
- In case of contact with eyes, immediately flush with water and call a physician.
- R12 should not be used in direct contact with a 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 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 properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. 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 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.

POLY-TUFF SYSTEMS INTERNATIONAL CORPORATION MARCH 2017