



# TuffSealant™ AC

## Asphalt and Concrete Joint Sealants

### 1.01 DESCRIPTION

TuffSealant™ AC is a high performance, self-leveling, exterior joint sealant for use in asphalt or concrete moving and non-moving joints or crack applications in severe roadway exposure. TuffSealant™ AC provides a long lasting flexible weather tight seal and may be applied to clean damp surfaces without risk of gassing or bubbling. It is a self-leveling, self-curing, non-priming sealant. 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 USES

- **TuffSealant™ AC** is ideal for small-, medium-, or large-scale sealing projects on parking lots, highways, street maintenance, driveways, and airport aprons and runways.
- **TuffSealant™ AC** offers excellent bonding properties, high resiliency, and resistance to weathering.
- **TuffSealant™ AC** provides a soft, flexible sealer for either concrete or asphalt pavement repairs. It remains pliable and will not track in warm weather or become brittle and crack in cold.
- **TuffSealant™ AC** should be used in any application where superior performance is a necessity or where a hot-applied product is either too dangerous or impractical.

### 1.03 FEATURES

- Allows Smaller, Non-Specialized Crews
- Can be Applied to Damp Cracks
- Easy to Apply
- Guns Or Pours Directly from the Container
- No Equipment Maintenance, Fires, Etc.
- No Expensive Equipment Needed
- No Hot Kettle Required- No Danger Of Burns
- Reduced Installation Costs.
- Saves Time, no Need For Joints to Fully Dry
- User-Friendly/Easy Cleanup
- VOC Compliant & Environmentally Safe

### 1.04 TECHNICAL DATA

ASTM C 920, Type S, Grade NS, Class 25; Fed Spec TT-S-00230c, Class A, Type II; ASTM D 1850; Federal Specification SS-S-158 A

### 1.05 PACKAGING

20 oz (600 ml) cartridges 12/box, 48/pallet  
3.5 gallon (13.25 liters) pail  
5 gallon (18.93 liters) pail

### 1.06 COLOR

Black

### 1.07 COVERAGE

See Table 1, Sealant Coverage Chart

### 1.08 PREPARATION

Concrete and masonry substrates shall be cured prior to the application of the sealant. The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance or other surface contaminants. Concrete surfaces require a light sandpaper finish equal to or greater than an ICRI CSP #1-3. Surface preparation may be completed with the use of PSI's **TuffPrep™**, profile and etch cleaner.

### 1.09 MIXING

**TuffSealant™ AC** is a one-component, ready-to-use material that requires no mixing

### 1.10 APPLICATION

Apply when temperatures are above 40°F (4.44°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 top to bottom, ensuring there are no voids or air pockets. Dry tooling is recommended to create a strong mechanical bond against the joint faces. **TuffSealant™ AC** can be painted after 24 hours. **TuffSealant™ AC** can be used in vertical or overhead working conditions.

### 1.11 CLEAN UP

Tools and Equipment: Clean before the sealant sets with PSI's **Solvent 100™** or PSI's **EnviroClean™**.

### 1.12 STORAGE AND SHELF LIFE

The material should be stored between 40-95°F (4-35°C) in a cool, dry area away from direct sunlight. Shelf life of properly stored, unopened containers is 24 months. Excessive temperature differential and/ or high humidity can shorten the shelf life expectancy.

### 1.13 LIMITATIONS

- Cannot withstand extended direct wear or abrasion.
- Containers that have been opened must be used as soon as possible.
- Not for use over hot rubberized asphalt without written consent of PolyTuff Systems, International.
- Not UV stable.
- Surfaces must be dry, clean and free of foreign matter.

### 1.14 CAUTION

Do not take internally. In case of ingestion, seek medical help immediately. May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed. If eye contact occurs, flush immediately with clean water and seek medical help as needed. Dispose of waste material in accordance with federal, state and local requirements.

Cured Resins are Innocuous. Do not apply to backer rod.

**READ SDS PRIOR TO USING PRODUCT. KEEP OUT OF THE REACH OF CHILDREN.**

1.15 PHYSICALS	
Solids by Weight ASTM D 1644	72%
Solids by Volume ASTM D 2697	67%
Weight Per Gallon ASTM D 1147	8.5 lbs (3.86 kgs)
Tensile Strength ASTM D 2370	700 psi (4.83 MPa)
Elongation ASTM D 2370	600%
Movement ASTM C 719	± 25%
Skin Time ASTM C 679	10-30 min
Tack Free ASTM C 679	6 Hours
Flash Point ASTM D 56	103°F (39°C)
VOC EPA 24	< 300 g/l
Viscosity (Caulk) ASTM D 1296	30,000 cps

Sealant Coverage Chart Liner Feet per Gallon																
		Width of Joint (inches)														
Depth of Joint (inches)		1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/4"	1-3/8"	1-1/2"	1-5/8"	1-3/4"	1-7/8"	2"
	1/8"	1232	616	411	307											
	3/16"	822	411	275	205	164										
	1/4"		307	205	154	123	103	88	77	62	56	51	47	44	41	38
	3/8"				103	82	68	59	51	41	38	34	32	29	27	26
	1/2"				77	62	51	44	39	31	28	26	24	22	21	19
	5/8"									25	23	21	19	18	16	15
	3/4"									21	19	17	16	15	14	13

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.