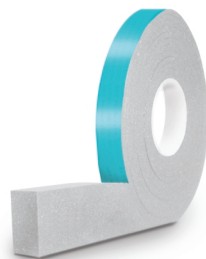




# EMSEAL UST

## Sealant Tape New Technology



### Innovative Technology:

This preformed expanding tape seal features a major breakthrough in sealant technology. EMSEAL UST Sealant Tape is composed of acrylic adhesive infused into a cellular foam base material never before available in a sealant tape. This creates a sealing performance significantly greater than any acrylic-impregnated product. In addition, it is *odorless, clean handling, UV stable, non-staining, and highly versatile.*



### A Wide Range of Uses:

UST sealant tape can be used to seal out moisture, dust, air, wind-driven snow, between metal surfaces, concrete, plastic, wood and other substrates. UST is ideal as a filler in expansion/compression joints subject to movement from thermal expansion and contraction, and as a gasket in mechanically fastened, non-moving applications.

- Water, vapor, air, sound and dust seal
- Applications requiring high temperature stability
- Ideal as a gasket tightly squeezed between joint faces that are mechanically fastened together such as lap seams
- Filling preformed openings between components and where joint opening size varies due to seasonal temperature changes
- In applications where damping vibration and noise is as important as weather sealing

### Product Features:

- Clean handling, non-staining, odorless, UV-stable
- Resistant to bugs and vermin
- Will not extrude from between joints like caulk or butyl tapes
- Conforms to contours and fills gaps
- Maintains a seal during thermal expansion and contraction
- Does not dry out
- Compatible with and adheres to most wet sealants
- No shrinkage or blow-out due to closed-cell breakage
- User friendly – no masking, mixing, priming, tooling, curing or clean-up required

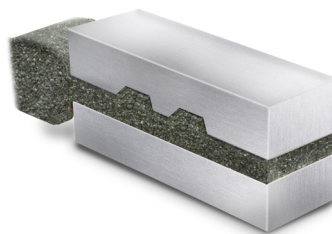
### Product Description:

UST is made of resilient cellular foam infused with a hydrophobic/hydrophilic, modified-acrylic, liquid adhesive sealant which is then compressed to a sealing density level appropriate to the application. The result is a hybrid sealant featuring the best characteristics of foam and liquid sealants while eliminating their weaknesses. UST replaces and outperforms liquid and butyl-tape sealants, closed-cell and unimpregnated open-cell foam closures.

UST is available in a wide variety of configurations. Simply determine the size of UST suited to the specific application and performance needs. Typically, higher compression levels are required for watertightness in standing water or water run-off; lower compression can be used for temperature and sound barriers or other fill-in applications. (see compression chart on back)

The ideal sealant solution for:

- Skylights
- OEM Applications
- Transportation
- Building Systems
- Trucks & Trailers
- Concrete Building Joints
- Windows & Doors
- Sunrooms & Greenhouses
- Greenhouses
- Door Frames
- Mobile Homes & Campers
- Rail Cars
- Horse Trailers
- Sound Barriers
- ... and hundreds more!



UST tape compresses to fill the void and then expands to complete the seal.

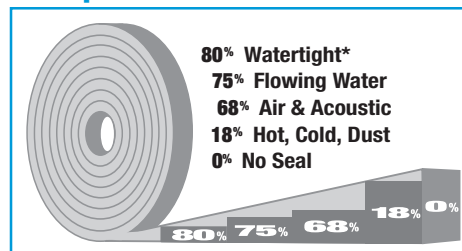


# EMSEAL UST

## Universal Sealant Tape

TABLE 1: Typical Physical Properties of UST		
Property	Value	Test Method
Base Material	Cellular high-density polyurethane foam	N/A
Impregnation	Proprietary, Hydrophobic Water-based Modified Acrylic	N/A
Color	Aluminum Gray	N/A
Tensile strength	22.3 psi min (153.8 kPa)	ASTM D3574 E
Elongation - ultimate	157% min	ASTM D3574 E
Temperature range		
High - permanent	185°F (85°C)	
High - short term	249°F (120°C)	
Low - permanent	-40°F (-40°C)	
UV resistance	No changes	ASTM G155-00A Accelerated Weatherometer
Resistance to aging	No changes	ASTM G155-00A Accelerated Weatherometer
Bleeding	None	N/A
Compression set	5% max	ASTM D3574 E

### Compression Levels



Higher levels of compression offer greater protection

\* Watertight up to 5 PSF per ASTM E-331 modified to run 24 hours instead of standard 15 minutes. This equates to a 1-inch standing head of water for 24 hours without leakage.

### Limitations

- UST will not adhere to components that are dirty or dust-covered or to surfaces coated with oils or other release agents.
- UST will expand to follow and fill irregular substrates within reason. Sharp corners and acute angles may need to be filled with additional filler pieces of UST in order to ensure a proper seal.
- Substrate must be capable of resisting, without deflection, approximately 1.5 to 2.5 lb/in<sup>2</sup> (10 to 17 kPa) back pressure from the UST.

### Standard and Custom Sizes

EMSEAL products are available internationally. The product range is continually being developed. EMSEAL reserves the right to modify or withdraw any product without prior notice.

## Installation Guidelines

### 1 Storage and Surface Preparation

Tape should be stored in an interior dry location. Ideal application temperature is approx. 75°F (24°C). Tape expansion will be faster at higher temperatures and slower at lower temperatures.

*Tip: For faster expansion in cold conditions keep the material warm before use and, if desired, apply heat from a hair dryer to installed material to accelerate expansion.*

Joint faces should be dry and cleaned of dirt, oils, grease, etc. There should exist sufficient space to receive full width of the sealant.

**IMPORTANT:** Reels must be stored FLAT and kept compact. Should material expand in package it can still be used. Unroll material, allow it to expand, then recompress it between surfaces to be sealed.

Available in over 10,000 dimensions.  
Call for specific dimensions for your applications and samples.

### 2 Opening Reels

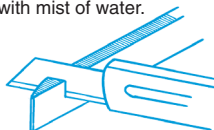
Only open materials that will be immediately used. Remove shrink wrap.



Cut through outer liner at colored marking tape to start.

### 3 Square Off Ends

Start and finish ends must be cut square. For easier cutting spray knife or scissors with mist of water.



### 4 Peel Off Liner

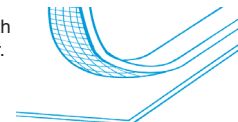
Remove release liner to expose adhesive face of tape.



### 5 Adhere to Surfaces

Press adhesive face to one surface. Align other surface with tape. Secure surfaces together.

*Tip: If needed cut and fit small filler pieces, or double-up tape to fill panel corrugation or voids.*



### 6 Join Lengths with Miters

To form a continuous strip overlap tapes and miter with a moist knife at 45° angle. Pinch mitred faces together.

