



EMSEAL RVS

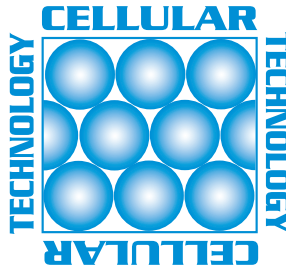
Recreational Vehicle Sealant Tapes New Technology



Product Innovation:

The result of a 3-year R&D project, EMSEAL **RVS RV Sealant Tape** features a major breakthrough in sealant technology. The innovation comes in the composition of the patent-pending acrylic adhesive infused into the cellular foam base material. This new proprietary chemistry incorporates a hydrophobic/hydrophilic component never before available in a sealant formulation.

The result is a material that features sealing performance significantly greater than any acrylic-impregnated predecessor. In addition, it is **odorless, clean handling, UV stable, non-staining, and highly versatile.**



Product Description:

EMSEAL **RVS Sealant Tape** is a preformed expanding tape seal. **RVS** is made of a 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 that features the best characteristics of foam and liquid sealants while eliminating their respective weaknesses. **RVS** compresses uniformly without overspill to provide a lasting seal.

Available in a wide variety of configurations, recreational vehicle manufacturers determine the size of **RVS** suited to their specific applications and performance needs.

Sealing between the **RVS** and body components is a result of the foam's cell structure, the impregnation, and the appropriate degree of compression.

EMSEAL **RVS** is packaged precompressed in rolls. The material contains a pressure sensitive mounting-adhesive on one face to facilitate installation.

Uses and Applications:

- **RVS** is an effective seal against water, vapor, air, sound, dust, allergens and vibration.
- Suitable for use on painted or unpainted metal, plastic, glass, wood, or other surfaces, as well as between dissimilar materials.
- For applications requiring high temperature stability.
- Ideal as a gasket tightly squeezed between joint faces that are mechanically fastened together such as in window and trim applications.
- In applications where damping vibration and noise is as important as weather sealing.
- As a secondary seal behind liquid sealant.

Product Features:

- Does not dry out.
- Does not extrude out.
- Tolerant of joint face irregularities.
- Ideal as secondary seal to wet sealants.
- Handles jarring, vibration, thermal, and torsional movements of body and chassis.
- Odorless, clean handling and non-staining
- Exposed face remains virtually flat regardless of variation and changes in joint width and compression.
- User friendly—no masking, mixing, priming, tooling, curing, clean-up or special tools required.

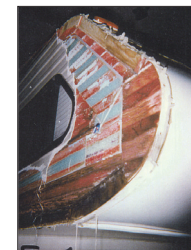


Avoiding Water Damage:



WATER DAMAGE could be the biggest post-production cost faced by any recreational vehicle manufacturer. For this reason, the choice of sealant or sealant system for penetrations of the vehicle skin is ultimately as important as any structural, drivetrain, or luxury component.

Extruded or liquid-applied sealants squeeze out, are super-sensitive to temperature, inadequately fill voids within the joint, do not follow thermal expansion and contraction changes, and do not adequately handle jarring, vibration, and torsional body and chassis movements.



Water damage as the result of failed trim seal.



Under compression of fasteners and flanges to at least 25% of its manufactured thickness, **RVS** becomes a watertight gasket which fills irregularities without extruding out.

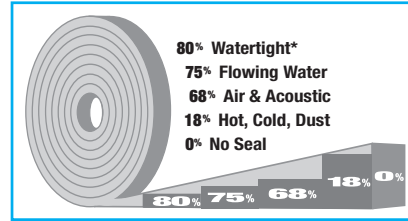


EMSEAL RVS

Recreational Vehicle Sealant Tapes

TABLE 1: Typical Physical Properties of RVS		
Property	Value	Test Method
Base Material	Custom formulated cellular 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 High - short term Low - permanent	185°F (85°C) 249°F (120°C) -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

- **RVS** will not adhere to components that are dirty or dust covered or to surfaces coated with oils or other release agents.
- **RVS** will expand to follow and fill irregular substrates within reason. Sharp corners and acute angles may need to be "softened" or filled with additional filler pieces of **RVS** in order to ensure a proper seal.
- Substrate faces must be parallel and have sufficient clear depth to fully support **RVS**.
- Substrate must be capable of resisting, without deflection, approximately 1.5 to 2.5 lb/in² (10 to 17 kPa) back pressure from the **RVS**.

Availability and Price

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 a warm dry interior location. Ideal application temperature is approx. 75°F (24°C). 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 depth 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.

2 Opening Reels

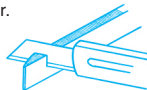
Only open materials that will be immediately used. Remove shrink wrap.



Cut in front of colored marking tape and pull back release liner to expose mounting adhesive.

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

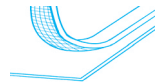
Remove release liner to expose adhesive face of tape.



5 Adhere to Surfaces

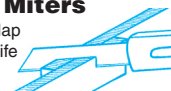
Press adhesive face to one surface. Align other surface with tape. Secure surfaces together.

Tip: If needed, cut and fit small filler pieces of 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 mitered faces together.



Available in many sizes.
 If this tape size does not return the results you desire in your specific application, ask your vendor for other size options

For additional information, available sizing, samples and pricing

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