

RepSeal WJS

A Single Component, Water Curable, High Performance, 100% Solids Joint Sealant

DESCRIPTION:

RepSeal WJS is a high-performance interior or exterior joint sealant for use in extremely wide moving joint applications. **RepSeal WJS** provides a long-lasting weather-tight seal to a variety of building substrates. RepSeal can be activated with water for a faster cure time. Consult your TuffTex representative. 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.

USES:

- Parking Garage Joints
- Paving and Expansion Joints
- Pre-Cast Concrete
- Ramps, Retaining Walls

FEATURES:

- 100% Solids
- Vertical joint applications available
- Bonds to Damp Masonry
- Durable Long Lasting Seal
- Easy to Trowel & Gun
- Excellent Weathering Properties
- Fast Skinning – Resists Dirt Pickup on Construction Sites
- Hybrid – Bonds to a Variety of Substrates without Priming
- No Mixing
- No Shrinkage
- No Solvents or Odor
- Safe to Use Indoors and in Confined Spaces
- Single Component
- Unique Polymer
- Water Curable

TECHNICAL DATA:

ASTM C-920, Type S, Grade P, Class 25, use NT, T, M, G, A, and O Federal Specification TT-S-00230-C Type II, Corps of Engineers CRD-C-541, Type II, Class A Canadian Standards Board CAN 19, 13-M82

PACKAGING:

20 oz. (591 ml) Sausages: 12 per case, 45 cases per pallet
2 gallon (7.56 liters) pails

COLOR:

Standard: Limestone
Special Order: Black, Dark Bronze, Stone, Tan, Gray, and White.

*Custom colors are available upon request. Minimum quantity required and additional costs may apply.



COVERAGE:

Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). It is recommended that the joint shall be no less than 1/4" wide by 1/4" deep (6 mm x 6 mm). The maximum depth of sealant shall be 1/2" (13 mm). Control the depth of the sealant by using a backer rod that is 25% larger than the joint opening at standard temperature. Prevention of three-sided adhesion is necessary.

Joint Sealant Coverage Chart (linear feet per gallon)

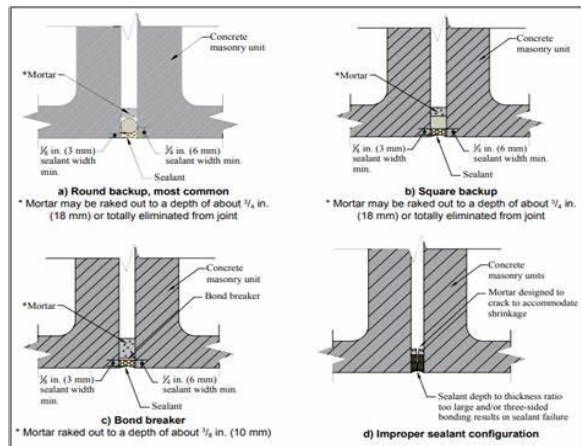
| | | Width of Joint (in.) | | | | | | | | | | |
|----------------------|-------|----------------------|------|------|------|------|------|----|-------|------|-------|----|
| | | 1/4" | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" | 1" | 1.25" | 1.5" | 1.75" | 2" |
| Depth of Joint (in.) | 3/16" | 411 | 275 | 205 | 164 | | | | | | | |
| | 1/4" | 307 | 205 | 154 | 123 | 103 | 88 | 77 | 62 | 51 | 44 | 38 |
| | 3/8" | | | 103 | 82 | 68 | 59 | 51 | 41 | 34 | 29 | 26 |
| | 1/2" | | | 77 | 62 | 51 | 44 | 39 | 31 | 26 | 22 | 19 |
| | 5/8" | | | | | | | | 25 | 21 | 18 | 15 |
| | 3/4" | | | | | | | | 21 | 17 | 15 | 13 |

JOINT PREPARATION:

Joints should be cleaned, dry, and free from all contamination including dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.

JOINT DESIGN:

Where the joint configuration will not permit a backer rod, it is recommended that an alternative bond breaker be used. Prevention of three-point adhesion is necessary through the use of a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weather-proof seal.



METAL:

Prepare all metal in a manner to ensure maximum adhesion. Remove all rust, scale and residue. Remove films, coatings and oils with an appropriate solvent such as alcohol.

It is recommended that Kynar-coated substrates be tested for adhesion prior to starting the project.

CONCRETE:

Concrete and masonry substrates shall be fully cured and dry prior to the application of the sealant. Remove any contamination by mechanical abrasion, sand blasting or power washing.



PRIMING:

In most instances **RepSeal WJS** will not require a prime. However, certain applications or substrates, such as Kynar-coated metal, may require a primer to ensure a long lasting bond and weatherproof seal. It is the user's responsibility to determine the need for a primer. It is recommended that, where-ever pro-longed immersion is anticipated, a primer be used for best performance.

APPLICATION:

RepSeal WJS is a one component, ready-to-use material that requires no mixing. **RepSeal WJS** may be water cured by hand or drill mixing 4 ounces of water p/gallon for faster curing (approximately 2 hours). It is recommended that a quality caulking gun be used to ensure ease of application. Apply when temperatures are above 40°F (4.4°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 bottom to the surface, ensuring there are no voids or air pockets. Dry tooling is recommended to create a strong mechanical bond against the joint faces.

RepSeal WJS may be used in temperatures down to 20°F (-6.67°C). Do not use **RepSeal WJS** in temperatures under 40°F (4.4°C) without confirming the substrate is frost and moisture free. **RepSeal WJS** can be painted after 24 hours. **RepSeal WJS** should not be used in vertical joints or in overhead working conditions.

FINISHING:

Wet sealant can be removed using a solvent such as alcohol, or soap and water. Cured can be removed by abrading or scraping the substrate. Equipment should be cleaned with an environmentally-safe solvent, as permitted under local regulations, immediately after use.

CURING:

RepSeal WJS typically skins over within 15-45 minutes and cures through in 3 to 7 days depending upon temperature, humidity, and thickness. Water curing is the preferred method when caulking in low temperatures. Lower temperatures and humidity prolong cure time. Higher temperatures accelerate cure time.

STORAGE AND SHELF LIFE:

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



| PHYSICALS (Based on draw down films) | |
|---|------------------------------------|
| Specific Gravity (Depending on Color) | 1.60 ± 0.1 |
| Viscosity (Brookfield RVT, TF Spindle, 4RPM, 80°F (27°C)) | >1,000,000 cps |
| Odor | Mild Ester Smell |
| Service Temperature, Continuous Service | -40°F to 200°F (-40 to 93.3°C) |
| Low Temperature Flex | -10°F(-23.3°C) pas 1/4" Mandrel |
| WJSump (Sag), ASTM C-697 | Zero WJSum |
| Hardness, ASTM D-2240 Shore A | 30 ± 3 |
| Shear Strength, ASTM D-1002 | 150 ± 15 psi (1.03 ± 0.1 mPa) |
| Tack-free Time, ASTM C-679 | 40-50 minutes |
| Solids by Weight, ASTM D 1644 | 100% |
| Solids by Volume, ASTM D 2697 | 100% |
| Tensile Strength, ASTM D 2370 | 350 psi (2.41 MPa) |
| Skin Time, ASTM C 679 | 30 min |
| Flash Point, ASTM D 56 | None |
| VOC EPA 24 | 8 gms/l <1.5% |
| Elongation, ASTM D-412 | 300-400 ± 50% |
| Shrinkage, after 14 days | No Measurable Shrinkage |

LIMITATIONS:

RepSeal WJS should not be used in direct contact with a wet or uncured single component urethane sealant. Sealant shall be cured for 3-5 days prior to any direct coating.

Avoid prolonged contact with skin. Uncured adhesives irritate eyes. In case of contact with eyes, immediately flush with water and call a physician.

In areas of prolonged chemical exposure contact Technical Services for recommendations. Do not allow uncured **RepSeal WJS** to come into contact with uncured silicone sealants.

Allow treated wood to cure for six months prior to application per APA guidelines. Do not use in areas subject to continuous immersion without a primer.

Horizontal applications will require tooling. Do not store in elevated temperatures. **RepSeal WJS** will not freeze during storage. To ensure easy gunning, bring to room temperature before application.

Read and ensure that the most up-to-date SDS and technical guidelines are being followed. Proper use and application are the responsibility of the applicator.

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

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

DISCLAIMER:

Refer to the SDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of **TuffTex Materials, Inc.** Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local **TuffTex Materials, Inc.** distributor or technical representative for additional technical data and instructions.

Failed Foam Joint in Wide Application