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**STAMPEDE™-2SL**

**SELF-LEVELING POLYURETHANE SEALANT-2 PART**

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### PRODUCT DESCRIPTION

STAMPEDE™-2SL Polyurethane Sealant is a traffic grade, pourable, two-component, architectural grade, polyurethane sealant capable of dynamic joint movement totaling 50% of original joint geometry (±25%). Joints formed with Stampede-2SL sealant can be expected to extend and compress a total of 50% of the installation width with no more than 25% movement in a single direction without affecting the seal or adhesive bond. The physical properties of Stampede-2SL will remain stable over time and in severe weather conditions. Physical properties are relatively unchanged over a wide temperature range, -20°F to 150°F (-29°C to 66°C).

### BASIC USES

Stampede-2SL Sealant is designed for sealing expansion, control and perimeter joints in parking decks, pavements, plazas, malls, patios, driveways, factory and institutional floors or any other areas subject to foot and light vehicle traffic. The sealant cures to form a durable, flexible, watertight bond with stone, masonry, ceramics, marble, wood, steel, aluminum, and many plastics. In many cases no primer is required.

- Self-leveling and pourable for horizontal joints
- Resilient to light foot and vehicle traffic
- Cures within 2 to 5 hours
- Superior adhesion and weatherability
- Ub- chemical and ozone resistant
- Tear resistant

### SPECIFICATION COMPLIANCE

Performance Specification for GreenSure Branding:

- Product has been tested to meet ASTM Specification C920 (C719 testing for cyclic movement ensures airtight, flexible seal)
- Product has been formulated to meet the most stringent VOC regulations relating to the caulking industry.
- Product packaging contains post-consumer-recycled content.

Meets or exceeds the following specifications:
- ASTM C-920 Type M, Grade T, Class 26, Use T, A and M
- TT-S-22 7E, Type II, Class A
- CAN/CGSB-19.24-M90

### LIMITATIONS

- Not recommended for use in sealing submerged joints
- Do not apply using wet tooling techniques; using solvents, water or detergent/soap solutions is not recommended.

### PRODUCT AVAILABILITY:

Stampede-2SL is a 2 component sealant available as 1.5 gal. in a two gallon pail. WL0001417 163-8774

Color packs must be purchased separately. Using the Color Packs, Stampede-2NS is available in:
- White 163-8501 Off White 163-8477
- Limestone 163-8014 Stone 163-8436
- Tan 163-8444 Aluminum Gray 163-8428
- Redwood Tan 163-8493 Medium Bronze 163-8485
- Special Bronze 163-8451 Black 163-8469

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### TYPICAL UNCURED PROPERTIES*

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Life</td>
<td>2-5 hours @ 75°F</td>
<td>Manufacturer’s Method</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months @ 75°F</td>
<td>Manufacturer’s Method</td>
</tr>
<tr>
<td>Flow, Slag and Slump</td>
<td>Pourable</td>
<td>Manufacturer’s Method</td>
</tr>
<tr>
<td>Staining</td>
<td>None</td>
<td>ASTM C510</td>
</tr>
<tr>
<td>Weight per Gallon</td>
<td>13.4 lbs.</td>
<td>ASTM D1475</td>
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</tbody>
</table>

### TYPICAL PROPERTIES (After 7 days cure at 77°F & 50% RH)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test Method/Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness (Shore A)</td>
<td>35</td>
<td>ASTM D2240</td>
</tr>
<tr>
<td>Modulus @100%</td>
<td>75 psi</td>
<td>ASTM D 412</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>230 psi</td>
<td>ASTM D 412</td>
</tr>
<tr>
<td>Adhesion in Peel</td>
<td>&gt;12 piw</td>
<td>ASTM C 794</td>
</tr>
<tr>
<td>Ozone Resistance</td>
<td>Excellent</td>
<td>Manufacturer’s Method</td>
</tr>
<tr>
<td>Joint Movement Capability</td>
<td>±25%</td>
<td>ASTM C 719</td>
</tr>
<tr>
<td>UV Resistance</td>
<td>Good</td>
<td>ASTM C 793 75</td>
</tr>
</tbody>
</table>

* Values above are not intended to be used in specification preparation

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JOINT DESIGN:

More joint movement can be accommodated in a thin bead of sealant than in a thick bead. Stampede-2SL Sealant should be no thicker than ⅛" (12.7 mm) and no thinner than ¼" (6.4 mm). In joints between 1/2" and 1", the ratio of sealant width to depth should be approximately 2:1. Sealant depths between ¼" and ½" should be ¼" deep. Joints with dynamic movement should not be designed in widths less than ¼".

PRINCIPLES OF JOINT DESIGN:

Sealants usually need to be no thicker than ½" (12.7 mm) and no thinner than ¼" (6.4 mm). The use of a bond breaker or backer rod prevents undesirable three-sided adhesion. Polyurethane open cell or polyethylene closed cell foam rod is the recommended backup for deep joints; polyethylene tape for joints too shallow to allow foam rod. These materials allow a bead of sealant to be applied and obtain two-sided adhesion, which will maximize a sealant’s extension and compression capability.

Under certain conditions, the use of closed cell type backup materials can result in bubble formation and deformation in the surface of the sealant bead. This usually does not affect the performance of the sealant, but can be unattractive. The use of open cell backup materials minimizes this condition.

In remedial work where it is impossible to remove old, failed sealant and restore the surfaces to a like-new condition, the band-aid approach may be utilized. A bond-breaker tape is applied to bridge over the existing joint and old sealant so that the tape extends beyond the edges of the original joint. This also has the effect of increasing the joint width and decreasing the percentage movement that the sealant must accommodate. The technique is also useful in new construction where the designed width is determined to be inadequate for the actual movement.

The “T” joint is a recommended remedial method for use in horizontal joints that have the Stampede-2SL pourable grade installed. Many times horizontal joints are encountered that place too much strain on the sealant for a successful, long-term installation. In such cases the remedy, whether performed at the time of the original installation or as a part of the remedial work, is one of increasing the joint width until the yearly movement is 20-25% of the total joint width.

JOINT DIMENSIONS:

The width of building expansion joints varies due to seasonal and daily changes in temperature. Stampede-2SL polyurethane sealant should be installed when the design width is approximately halfway between the dimensional extremes, typically at 65ºF to 80ºF.

Joint width should not be less than ¼" (6.4 mm). The joint depth must allow a sealant depth, after installation of bond-breaker material, of a minimum of ¼" (6.4 mm). Lap shear joints should have a bead width equal to, or greater than twice the anticipated movement.

A conservative design practice, which uses a portion of the sealant’s movement capability as a safety factor is recommended. Sealants are subject to cohesive failure when the actual movement is greater than their rated capability. Also, sealants applied under conditions resulting in less than optimum adhesion to the joints surfaces may fail adhesively within the limits of their rated capability. For all immersed applications requiring a high degree of dynamic movement the designed joint width should be at least four times the total anticipated joint movement.
STAMPEDE™-2SL POLYURETHANE SEALANT

PREPARATORY WORK:
Clean all joints by removing foreign matter and contaminants such as oil, dust, grease, frost, water, surface dirt, old sealants and any protective coating.

Porous substrates should be cleaned as necessary by grinding, saw cutting, blast cleaning (sand or water), mechanical abrading or a combination of these methods that will be required to provide a sound, clean and dry surface for sealant application. Dust, loose particles, etc., should be blown out of joints with oil-free compressed air or vacuum cleaned.

Nonporous and plastic surfaces should be cleaned by a solvent procedure or by mechanical means.

Detergent or soap and water cleaning treatments are not recommended. Protective films must be removed by a solvent recommended by the manufacturer of the component or other means that leave no residue. In all cases where used, solvents should be applied with one clean cloth or lintless paper towel and the solvent wiped clean with a second cloth or towel. Cleaning solvents should not be allowed to air dry or evaporate without being wiped. Architectural coatings, paints and plastics should be cleaned with a solvent approved by the manufacturer of that product. Cleaning of all surfaces should be done on the same day in which the sealant is applied.

CAUTION! SOLVENTS MAY BE FLAMMABLE AND ARE TOXIC.

PRIMING
Priming or surface preparation recommendations:

a) Priming of masonry or other porous substrate joints is recommended only if the joints will be subjected to prolonged or continuous immersion. Joints subjected to intermittent immersion or vertical joints subjected to rain should perform without the need of a primer.

b) It is recommended that all surfaces be pre-tested with STAMPEDE™ Polyurethane Sealant to determine if cleaning will be necessary to remove surface contamination. In the case of some exotic coatings, priming or other surface treatment may be necessary.

c) STAMPEDE™ Polyurethane Sealant is compatible with most coatings and treatments, but due to the vast number and types of surface coatings available, Sherwin-Williams recommends pre-testing STAMPEDE™ Polyurethane Sealant on the surface in question. Follow manufacturers recommended recoat times for application of STAMPEDE™ Polyurethane Sealant to primers or treatments. Check primer or treatment for surface contaminants prior to application of sealant.

MASKING
Masking should be done after priming to avoid wicking primer under tape applied on rough surfaces or tape that is not tightly adhered to the surface.

All areas adjacent to joints can be masked to assure a neat appearance. The masking tape should not be allowed to touch the clean surfaces to which the sealant is to adhere. Soon after sealant application and before a skin forms, tooling should be completed in one continuous stroke. Remove masking tape immediately after tooling is completed.

MIXING
Stampede-2SL is a multipart sealant provided as base, activator (or curing agent) and color pack. All the accelerator and appropriate color pack must be thoroughly mixed with the base to avoid uncured areas and/or color streaks. Failure to follow mixing instructions implicitly can result in spotty cure, random cure or complete lack of cure of the sealant. Do not attempt to mix partial units, as the exact ratio of curing agent to base is essential for optimum performance.

MIXING INSTRUCTIONS:
1. Remove the cover from the metal container. Remove the zip-top lid from the activator can and add the entire contents, scraping out all residue in the can. Add the entire contents of the accompanying color pack.

2. Five minutes of thorough mixing is required to obtain optimum cure. It is recommended to use a Jiffy Mixer or equivalent. Due to the critical nature of the mix, blend with a slow speed (80-150 rpm) drill for a full five (5) minutes by the watch. Five-minute minimum is required to properly blend the color and the activator into the sealant base. Use a timer to time your mixing. The color paste should all be blended into the sealant with no streaks. The material is improperly mixed if it is not uniform in color. The color may disperse evenly in less than five minutes however, continue mixing for the five-minute minimum.

3. Stop at least once during mixing and scrape the bottom and sides of the container as well as the blades of the mixing paddle. Failure to follow mixing instructions implicitly can result in spotty cure, random cure or complete lack of cure. Temperature has a direct bearing on the work life and cure rate of chemically curing sealants. High temperatures result in a shortened work life and cure rate, while low temperatures extend both.

Bulk caulking guns or other means may be utilized that best facilitates the proper installation of the Stampede-2SL into the joints so as to properly “wet” the joint surfaces.

METHOD OF APPLICATION
Install backup material or joint filler as specified; and primer when applicable. Apply Stampede-2SL polyurethane sealant in a continuous operation using a positive pressure adequate to properly fill and seal the joint. The Stampede-2SL is pourable and will tend to seek its own level. Tooling is recommended to ensure proper wetting of the joint surfaces.

CLEANUP
Excess sealant should be dry-wiped from all surfaces while still uncured, and followed with a commercial solvent wipe such as acetone or mineral spirits. Should sealant accidentally begin to cure on adjacent porous surfaces, the excess sealant should be allowed to progress through the initial cure or setup. It should be removed promptly by abrasion or other mechanical means.

CURED SEALANT IS USUALLY VERY DIFFICULT TO REMOVE WITHOUT ALTERING OR DAMAGING THE SURFACE TO WHICH THE SEALANT HAS BEEN MISAPPLIED.
MAINTENANCE:
No maintenance should be needed. If sealant becomes damaged, replace damaged portion. Clean surfaces in damaged area, and repair with fresh Sherwin-Williams Stampede-2SL sealant.

FIELD ADHESION TEST
A hand pull test may be run on the job site after the sealant is fully cured (usually within 7 – 21 days.) The hand pull test procedure is as follows:
• Make a knife cut horizontally from one side of the joint to the other.
• Make two vertical cuts approximately two inches long, at the sides of the joint, meeting the horizontal cut at the top of the two-inch cuts.
• Grasp the two inch piece of sealant firmly between the fingers and pull down at a 90º angle or more, and try to pull the uncut sealant out of the joint.
• If adhesion is proper, the sealant should tear cohesively in itself, or be difficult to adhesively remove from the surface.
• Sealant may be replaced by applying more sealant in the same manner as it was originally installed. Care should be taken to ensure that the new sealant is in contact with the original, and that the original sealant surfaces are clean, so that a good bond between the new and old sealant will be obtained.

PRETESTED ADHESION TEST TO SUBSTRATES (PATS) PROGRAM
The program is intended to eliminate potential field problems by pretesting construction sealants with samples of building materials on which the sealant will be applied. The tests will aid in determining the proper surface preparation method, effective solvents for cleaning and whether priming is necessary to achieve optimum adhesion. Following this procedure will remove many of the unknown variables that affect field success. Test samples or coupons should be identified as to manufacturer, origin, designed use, building project, person and firm originating the request. Appropriate sketches or drawings showing the intended use can be helpful. Contact Sherwin-Williams Representative or Technical Service.

PRECAUTION:
Use in accordance with Material Safety Data Sheet.

AVAILABILITY:
Stampede™ SW-2SL polyurethane sealant is available throughout the United States through Sherwin-Williams Stores. To find your nearest Sherwin-Williams Store, please call 1-800-4SHERWIN, or log on to www.sherwin.com.

SHELF LIFE:
When stored at or below 80°F (27°C), Stampede-2SL polyurethane sealant has a shelf life of twelve (12) months from date of shipment from Manufacturer to Distribution Center Facilities.

APPLICATION LIMITATIONS:
1. Stampede-2SL sealant is not recommended for use in sealing submerged joints, particularly where porous surfaces permit water infiltration to bond surfaces.
2. Stampede-2SL sealant is not recommended for exterior or interior structural sealing of submerged applications.
3. Stampede-2SL sealant should not be applied with wet tooling techniques; using solvents, water or detergent/soap solutions is not recommended.
4. Stampede-2SL sealant should not be applied to surfaces with special protective or cosmetic coatings without prior consultation with the manufacturer. Such surface include, but are not limited to, mirrors, reflective glass, or surfaces coated with Teflon®, polyethylene or polypropylene.
5. Stampede-2SL sealant should not be applied to unpredictably absorptive surfaces such as marble, limestone, or granite unless a standard of appearance has been agreed upon as a result of testing for stain and/or discoloration.
6. Stampede-2SL sealant cures by chemical means. All components used can be affected by water before or during cure. The sealant should not be stored, applied or cured in areas where unusually high humidity or free water are present during the application or initial cure.
7. Stampede-2SL sealant generally is NOT topcoated. If topcoating is necessary, the specifier must determine the appropriate topcoating for the sealant and the anticipated performance requirements. We recommend testing the system to ensure adhesion to the sealant, no negative reactions to the sealant, and flexibility of the coating with the sealant in the environment.

LIMITED WARRANTY:
When used as directed within one year of purchase date, Stampede-2SL Polyurethane Sealant is warranted. If this product fails to perform as specified, Sherwin-Williams will furnish an equivalent amount of new polyurethane sealant at no cost or will refund the purchase price upon evidence of purchase. The warranty does not include labor or the cost of labor for the application of this product. This warranty gives you specific legal rights and you may have other rights, which vary from state to state.