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STAMPEDE™-1 AND TX

POLYURETHANE SEALANT SMOOTH AND TEXTURED



**SHERWIN
WILLIAMS.**

PRODUCT DESCRIPTION

STAMPEDE™-1 Polyurethane Sealant is a single component, moisture cure, non-sag, gun-grade elastomeric sealants come in both smooth and textured formulations. They are designed for a wide range of sealing and caulking applications in joints subject to structural movement. After curing, these sealants exhibit a flexible, resilient, rubber-like appearance that adheres to a wide variety of substrates. They provide up to 50% total joint movement and are especially effective in joints between dissimilar substrates.

BASIC USES

For use on: window frames, concrete driveways, skylights, doors, expansion wall joints, foundations, fascia, siding, cementitious board, masonry, stucco, concrete, wood, vinyl, aluminum, steel, and ceramics.

- Superior adhesion to many substrates
- Resists deterioration due to extreme weather, stress, movement, water and many chemicals
- Paintable after full cure
- Easy application
- CARB compliant formulation

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 S, Grade NS, Class 25, Use-NT, Use-A, Use-M, Use-G, Use-O
- Federal Specification TT-S-00230 C, Type II, Class A, Non-Sag, One Component
- CAN/CGSB-19.13-M87

PRODUCT AVAILABILITY:

163-7479	Smooth	White	10.3 fl. oz.
163-7487	Smooth	Limestone	10.3 fl. oz.
163-7495	Smooth	Aluminum Gray	10.3 fl. oz.
163-7503	Smooth	Stone	10.3 fl. oz.
163-7511	Smooth	Tan	10.3 fl. oz.
163-7529	Smooth	Special Bronze	10.3 fl. oz.
163-7537	Smooth	Black	10.3 fl. oz.
163-7545	Smooth	Off-White	10.3 fl. oz.
163-7552	Smooth	Medium Bronze	10.3 fl. oz.
163-7560	Smooth	Redwood Tan	10.3 fl. oz.
133-5272	Smooth	Tan	20.0 fl. oz.
163-7610	Smooth	White	20.0 fl. oz.
163-7628	Smooth	Limestone	20.0 fl. oz.
164-4673	Smooth	Special Bronze	20.0 fl. oz.
133-5264	Textured	Stone	10.3 fl. oz.
163-7578	Textured	White	10.3 fl. oz.
163-7586	Textured	Aluminum Gray	10.3 fl. oz.
163-7594	Textured	Tan	10.3 fl. oz.
163-7602	Textured	Limestone	10.3 fl. oz.
133-5256	Textured	Stone	20.0 fl. oz.

TABLE 1: TYPICAL UNCURED PROPERTIES*

Property	Value	Test Method/Note
Tool/Work Time	60 minutes	S-W Test Method
Tack free Time	4 hours	TT-S-00230C/ASTM C679
Curing Time @77°F	2 -4 days	Varies with relative humidity
Flow, Sag or Slump	0.1 inch	TT-S-00230C/ASTM C639
Staining	None	TT-S-00230C/ASTM C510

TABLE 2: TYPICAL PROPERTIES* (After 14 days cure at 77°F & 50% RH)

Property	Value	Test Method/Note
Hardness (Shore A)	38	ASTM 02240
Modulus at 100% Elongation	65 psi	ASTM 0412
Tensile Strength	133 psi	ASTM 0412
Elongation	685%	ASTM 0412
Adhesion in Peel	>25 piw	TT-S-00230C/ASTM C794
Stain & Color Change	None	TT-S-00230C/ASTM C510
Ozone Resistance	Good	
Joint Movement Capability	+ or - 25%	TT-S-00230C/ASTM C719
UV Resistance	Good	ASTM C793

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

The physical properties of fully cured STAMPEDE 1 will remain relatively unchanged over a temperature range of -40°F to 210°F.

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LIMITATIONS

Not recommended for:

- Porous substrates subjected to continuous water immersion.
- Joints contaminated with grease, wax, corrosion, bitumen or cement laitance.
- Horizontal joints in floors or decks where abrasion or physical abuse is encountered.
- Special architectural finishes without proper testing.

Must not be applied to frost-bearing surfaces if temperature will be below freezing for more than 24 hours.

Tooling techniques using solvents or soapy solutions are not recommended.

All surfaces must be evaluated for adhesion prior to use.

Not designed as a glazing sealant in which the adhesive bond to glass is exposed to sunlight. The user or specifier should establish that any application in glazing will not expose the glass bond to appreciable amounts of ultraviolet radiation.

The surface of Stampede-1 sealant, when exposed to UV rays and sunlight, will yellow and not retain its gloss. This may occur within a few weeks after exposure. The change of color is limited to the surface layer of the seal and should not compromise the sealing properties of the Stampede-1 if the dimensions of the joint are proper and the sealant is otherwise properly applied. In areas where color retention is critical, please refer to Stampede 1H.

Stampede will remain tacky for a few hours and attract dust and dirt from the jobsite which may affect the appearance of the sealant. Check tack-free time to prevent dirt pickup. Dampness and substrates with high moisture will trigger extensive curing of the sealant within a very short period of time. This may cause an excess of bubbling and foaming within the sealant and at the bottom of the bead.

During the cure time of Stampede-1, do not expose to curing silicone sealants, curing Stampede-1H, alcohol, acids, or solvent-based materials.

Until the sealant is fully cured, do not expose the sealant to any mechanical stress. Uncured sealant will not respond properly to cyclic expansion and contraction of the joint specified for the cured sealant only.

Stampede-1 must not be used to seal narrow joints, fillet joints and face nail holes.

Smearing and feathering Stampede over joints is not recommended.

Lower relative humidity and temperature will significantly extend the curing time. Confined areas, deep joints and moisture barrier substrates may also affect the full cure time and extend it by many days.

TECHNICAL DATA:

STAMPEDE™ Polyurethane Sealant exhibits excellent weatherability when exposed to ultraviolet radiation, atmospheric hydrocarbons and extremes in temperature.

Joints designed to accommodate 50% total joint movement will not affect the seal or adhesion bond.

Joints properly designed and sealed will extend and compress a total of 50% of the installation width with no more than 25% movement in a single direction.

Cured sealant can be painted with emulsion or synthetic enamel paints.

Sealant will be virtually unaffected by contact with water during or after cure on non-porous substrates. On porous substrates, priming is recommended if the sealant will be subjected to prolonged periods of immersion.

PRECAUTIONS: IF THIS PRODUCT IS USED IN DIRECT CONTACT WITH ANY OTHER SEALANT OR ELASTOMER A COMPATIBILITY TEST MUST BE CONDUCTED, BY PURCHASER OR USER, PRIOR TO ACCEPTANCE. STAMPEDE-1 POLYURETHANE SEALANT IS NOT COMPATIBLE WITH OXIME CONTAINING SILICONE SEALANTS.

INSTALLATION: JOINT DESIGN

Joint design depends on a variety of factors, such as the maximum expansion and contraction of the substrate from thermal change. Recommended maximum joint width should not exceed 1-1/4" (1.250") (3.175cm) and the maximum joint depth should not exceed 1/2" (0.500") (12.69mm). Minimum joint width should not be less than 1/4" (0.250") (0.34mm).

The sealant depth should be 1/4" (0.34mm) for joints 1/4" in width. For joints over 1/4" in width, depth should be 1/2 of the joint width but should not exceed 1/2" (0.500") (12.69mm) in depth. In order to obtain the recommended sealant mass, the joint should be filled with sealant backer rod first, leaving the depth to be filled with sealant.

Desirable backer rod materials are polyethylene or polyethylene non-gassing foamed rod. Do not prime or puncture the closed cell structure of polyethylene rod as bubbles could form and migrate to the surface of the curing sealant. The use of open cell backer rod material minimizes this condition.

SURFACE PREPARATION:

Concrete and masonry surfaces must be free of foreign matter and contaminants. Dust and loose particles should be blown out of joints. A clean, dry, sound and uncontaminated surface is mandatory. Stone surfaces must be cohesively sound, dry and free of contaminants. Granite, limestone, marble and sandstone must be pre-tested for adhesion prior to sealant installation.

Mill finish aluminum may contain an invisible oil film or oxide. Clean with a good degreasing solvent like xylene, toluene or commercial isopropyl alcohol. The use of these solvents (or other solvents) may be hazardous to your health. Use only in well ventilated areas. KEEP AWAY FROM OPEN FLAME. Read all labeling before use and follow solvent manufacturer's recommendations and instructions for safe handling. Many high-performance coatings or unusual surface treatments may require abrasion of the surface with steel wool or fine emery paper during preparation.

PRIMING:

Priming or surface preparation recommendations:

- 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.
- 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.

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- c) STAMPEDE™ Polyurethane Sealant is compatible with most coatings and treatments, but due to the vast numbers of, 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.

METHOD OF APPLICATION:

Install backup material or joint filler, spacer shims and tapes as specified. Apply STAMPEDE-1 sealant in a continuous operation using a positive pressure adequate to properly fill and seal the joint.

TOOLING:

Tooling of freshly applied sealant should be done in one continuous stroke. Tool the sealant with adequate pressure to spread the sealant against the back-up material and onto the joint surfaces.

If joint surfaces have been masked, remove masking tape immediately after tooling. Excess sealant should be dry-wiped from all surfaces while still uncured, following with a commercial solvent such as xylol, toluol, or methyl ethyl ketone. Cured sealant is very difficult to remove.

PAINTING:

Exercise caution if painting. When painting over STAMPEDE-1 and TX Polyurethane Sealant with primers, top-coats or treatments, cracking or peeling of these coatings could occur because of joint movement. In general, oil-based paints are not recommended because of their relatively poor elastic properties and because of their potential interaction with the sealant chemistry, which may create non-curing conditions for the painted sealant. Do not paint over STAMPEDE sealant until it has fully cured. Cure is dependent on temperature and humidity and may take 7 or more days.

Stampede-1 or -TX, when applied in a typical 1/4" x 1/4" bead and backed with a suitable bond-breaker at 77F and 50%RH, will be acceptable for painting with breathable coatings within 48 hours and non-breathable coatings after 72 hours. Warmer, more humid conditions will allow Stampede-1 to cure more quickly and conversely, cooler and/or drier conditions will lengthen the cure time. A small test area is strongly recommended.

CLEANING:

Excess sealant and smears should be dry-wiped from all surfaces while still uncured, followed with a commercial solvent such as xylol, toluol or methyl ethyl ketone. The use of these solvents (or other solvents) may be hazardous to

your health. KEEP AWAY FROM OPEN FLAME. Read all labeling before use, and follow solvent manufacturer's recommendations and instructions for safe handling. Tool and application equipment may also be cleaned with the same solvents.

The dried sealant can be removed by cutting with a sharp-edged tool; thin films by abrading.

CAUTIONS

CONTAINS METHYLENE DIISOCYANATE. Contents are **COMBUSTIBLE.** Keep away from heat and open flame. Gives off harmful vapor of solvents and isocyanates. **DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH RESPIRATOR MAY BE EFFECTIVE.** Follow directions for respirator use. Wear a respirator while applying the product and until all vapors are gone. If you have any breathing problems during use, **LEAVE THE AREA** and get fresh air. If problems remain or happen later, **IMMEDIATELY** call a doctor - If not available get emergency medical treatment. Have this label with you. **IRRITATES SKIN AND EYES.** Avoid contact with eyes and skin. Keep container closed when not in use. Reacts with water in closed container to produce pressure which may cause container to burst. Do not transfer contents to other containers for storage.

FIRST AID: In case of eye contact, flush thoroughly with large amounts of water for 15 minutes and get medical attention. For skin contact, wash thoroughly with soap and water. In case of respiratory difficulty, provide fresh air and call physician. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

SHELF LIFE:

STAMPEDE-1 Sealant will exhibit a 12 month shelf life from the date of manufacture when stored at room temperature.

LIMITED WARRANTY

When used as directed within one year of purchase date, Stampede 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.