



PL[®] S10[™] Polyurethane Concrete Crack Masonry Sealant

Description: Loctite PL S10 Polyurethane Concrete Crack Masonry Sealant is a high quality one-component, texturized, moisture-curing gun grade sealant developed especially for forming permanent, water and weatherproof seals in all exterior gaps and joints in concrete and masonry. The textured appearance blends well with masonry substrates. PL S10 is non sagging and once cured is elastic and remains flexible to expand and contract with construction material movement. Loctite PL S10 Concrete Crack Polyurethane Masonry Sealant does not require a primer for concrete, brick, stone or masonry and resists deterioration from weather, stress or movement.

Available As:

Item #	Size	Package	Color
1618522	10 fl oz (295 ml)	Paper Cartridge	Gray
1618521	10 fl oz (295 ml)	Paper Cartridge	Gray
1675275	10 fl oz (295 ml)	Paper Cartridge	Gray

Features & Benefits:

- Textured Appearance
- Flexible & Durable
- Weatherproof
- Paintable
- Low VOC

Recommended For:

Loctite PL S10 Polyurethane Concrete Crack Masonry Sealant can be used for Interior and exterior joints, horizontal and vertical joints, expansion joints, panel walls, precast units, concrete walls, foundations, brick and block walls, concrete driveways and sidewalks. Bonds to concrete, masonry, brick, stucco, aluminum, wood and many more substrates.

Not Recommended For:

- Prolonged underwater applications or permanent water immersion
- Applications requiring temperature resistance greater than 200°F (93°C)
- Joint depths greater than 1/2" (13 mm) without the use of a backer rod
- Use with fillers impregnated with oil, asphalt, tar or any other migratory saturant
- Contact with oil-based caulking compounds, butyl caulking compounds, silicone sealants (uncured and cured), polysulfides; fillers impregnated with oil, asphalt or tar; alcohol-based materials or solvents
- Applications over freshly treated wood. Treated wood must have weathered for at least 6 months.
- Copper, stainless steel and galvanized steel typically require a primer. An adhesion test is recommended for any other questionable surface

Coverage:

For a 10 fl. oz. (295 ml) cartridge:

- A 1/4" (6 mm) bead extrudes approximately 30.9 ft. (9.4 m)
- A 3/8" (9.5 mm) bead extrudes approximately 13.8 ft. (4.2 m)



TECHNICAL DATA SHEET

Typical Uncured Physical Properties:

Color:	Gray	
Appearance:	Non slumping paste	
Base:	Polyurethane	
Odor:	Mild	
Density:	9.6 lb/ US gallon	
Flash Point:	Non-Flammable	ASTM D3278, closed cup
VOC Content:	3% by weight	CARB
	33 g/l	SCAQMD rule 1168
Shelf Life:	12 months from date of manufacture (unopened)	Stored at standard conditions
Lot Code Explanation:	XX1AUG015	
Stamped on bottom plunger of cartridge	XX = Process ID denoting mixers or packaging lines 1 = Sequential number of batches AUG = Month 01 = Day 5 = Last digit of year Example: AUG015 = August 1, 2015 is date of manufacture	

Typical Application Properties:

Application Temperature:	Apply between 40°F (4°C) and 120°F (49°C) For best results, apply between 60°F (16°C) and 100°F (38°C)	
Skin Time:	Overnight or within 24 hours*	At 75°F, 50% relative humidity, and a ½" width by ¼" depth joint
Cure Time:	1 week*	At 75°F, 50% relative humidity, and a ½" width by ¼" depth joint
	*Time is dependent on temperature, humidity, porosity of substrate and depth of sealant applied	
Sag:	1/16"	ASTM C639, 120°F (49°C)

Typical Cured Performance Properties:

Color:	Gray	
Appearance:	Non-flammable, rubbery solid	
Service Temperature:	-40°F to 180°F (-40°C to 82°C)	
Water Resistant:	Yes	
Paintable:	Yes, once fully cured (7 days)	
Shrinkage:	Nil	
Hardness:		ASTM D661, Shore A
At standard conditions:	25-30	
After heat aging:	30-35	
Movement Capability:	± 25%	ASTM C719
Tensile Strength:	215 psi	ASTM D412
Ultimate Elongation at Break:	735%	ASTM D412
Tear strength:	50 pli	ASTM D1004
Adhesion in Peel:	22 pli	ASTM C794
Weight Loss, after heat aging:	<10%	ASTM C792
Tack-Free Time:	Passes	ASTM C679
Stain & Color Change:	No visible change	ASTM C510
Artificial Weathering:	No elastomeric property change	ASTM G26, Xenon arc, 1000 hrs



TECHNICAL DATA SHEET

Specifications:

- ASTM C920, Type S, Grade NS, Class 25, Use T, M and A
- Federal Specification TTS-00230C, Type 1, Class A

Directions:

Tools Typically Required:

Utility knife, caulking gun and tool to puncture cartridge seal.

Safety Precautions:

Wear gloves. Sealant may temporarily stain skin.

Joint Preparation:

The number of joints and the joint width should be designed for a maximum of $\pm 25\%$ joint movement from the initial joint width. The depth of the sealant joint should be $\frac{1}{2}$ the width of the joint. The maximum depth is $\frac{3}{8}$ inch (10 mm) and the minimum is $\frac{1}{4}$ " (6 mm). The maximum recommended joint width is 1.5 inches (38 mm).

Joint Width (inches)	Sealant Depth @ Midpoint (inches)
1/4 - 1/2	1/4
1/2 - 3/4	1/4 - 3/8
3/4 - 1	3/8 - 1/2
1 - 1.5	1/2

Joint Width (mm)	Sealant Depth @ Midpoint (mm)
6 - 13	6
13 - 19	6 - 10
19 - 25	10 - 13
25 - 38	13

In deep joints, the sealant depth must be controlled by Closed-Cell Backer-Rod or Expansion Joint Filler. Other caulks should not be used as fillers. Do not prime Backer-Rod or Expansion Joint filler. Do not puncture Backer-rod as it may cause bubbling. For joints subject to puncture (i.e. by either high heels or umbrella points), use of a stiffer or higher density back up material is required. Cork or rigid non-impregnated cane-fiber joint fillers are suitable. Make sure that the backing material is tight to the sides of the joint to prevent loss of sealant through the bottom. Note: Do not use other caulks or sand as a bottom bed in a joint.

Caulking and sealing should be performed when temperatures are above 40° F (4°C). Application to moist surfaces will adversely affect adhesion. Application may proceed as low as 20° F (-7° C) only if substrates are clean and completely free of moisture or frost.

Surface Preparation:

Surfaces must be structurally sound, dry and free of all loose aggregate, paint, oil, grease, asphalt, release agents, wax and mastic compounds prior to the application of the sealant.

New Concrete:

Remove all loose material, assuring that joining surfaces are clean, dry and structurally sound. Surfaces in contact with form release agents should be cleaned by sandblasting. Fresh concrete must be fully cured. Laitance must be removed by abrading.

Old Concrete:

For joints previously sealed, remove all joint sealing material by mechanical means. If joint surfaces have absorbed oils, sufficient concrete must be removed to ensure a clean surface.

General Preparation:

Use above 40°F (4°C). In cool or cold weather, store container where temperature is about 75°F (25°C) for at least 24 hours before using. Cut nozzle at a 45° angle to desired bead size and puncture inner seal.

Priming:

Priming is not required for most application however, joints subject to periodic water immersion must be primed. On surfaces other than concrete, a test application should be conducted to verify adhesion.

Apply an appropriate primer full strength with a brush or clean cloth following instructions. A light, uniform coating is sufficient for most surfaces. Porous surfaces may require more primer but do not over apply. Allow primer to dry prior to sealant application. Priming and sealing must be done on the same working day.

Application:

Apply sealant with a steady pressure, forcing into the joint. Fill joints from the bottom; avoid bridging of the joint, which may form air bubbles. Sealant will self-level to form a clean joint surface. Protect open containers from heat and /or direct sunlight. Do not use in joints deeper than 3/8" (9.5 mm) without the use of a backer rod. The depth of the sealant should be half the width of the joint. The maximum depth is 1/2" (31 mm) and the minimum is 1/4" (6 mm). Sealant skins within 24 hours, is functional within 3 days and reaches full cure in about 1 week.

Clean-up

Clean tools and any uncured sealant residue immediately with mineral spirits in a well-ventilated area to the outdoors. Cured sealant may be carefully cut away with a sharp-edged tool.



TECHNICAL DATA SHEET

Storage & Disposal:

NOT DAMAGED BY FREEZING. Store in unopened containers in a cool, dry area away from heat and direct sunshine under standard conditions. Standard storage conditions are defined as 72 ± 4°F (22 ± 2°C) and <50% relative humidity. Elevated temperatures will reduce shelf life. In cool or cold weather, store container at room temperature for at least 24 hours before using. Use an approved hazardous waste facility for disposal

Label Precautions:

WARNING! MAY BE HARMFUL IF INHALED. EYE, SKIN AND RESPIRATORY IRRITANT. MAY CAUSE SKIN AND RESPIRATORY SENSITIZATION.

WARNING: Contains mineral sprits and toluene diisocyanate (TDI). Individuals with lung or breathing problems or prior sensitization to isocyanates should not use this product. Avoid breathing vapors. Vapors may cause headaches, dizziness and nausea. Open windows and doors to ensure cross ventilation during application and until all odors are gone. Avoid contact with eyes and skin. Prolonged or repeated exposure may cause dermal or respiratory sensitization, effects may be permanent. Gloves recommended. **FIRST AID:** If swallowed, call a physician or Poison Control Center immediately. Do not induce vomiting. For eye contact flush with water for 15 minutes, call a physician. For skin contact, wash thoroughly with soap and water. If inhaled, move to fresh air. If symptoms persist, get immediate medical attention. **INTENTIONAL MISUSE BY DELIBERATELY INHALING CONTENTS MAY BE HARMFUL OR FATAL. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN**

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

Refer to the Safety Data Sheet (SDS) for further information.

Disclaimer:

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

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Revision Date: 06/22/2016 Supercedes: 08/22/2014 Ref. #: