



TECHNICAL DATA SHEET



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DESCRIPTION

PL® Ultimate is a hybrid sealant and adhesive featuring the exclusive Flextec™ technology that provides superior caulking and bonding performance all in one. PL® Ultimate is ideal for sealing applications because it is paintable, will not crack or shrink and provides superior UV resistance. The cutting edge formula is low odor and provides a strong, flexible bond on a wide variety of building materials in all weather conditions, even when applied to wet surfaces. PL® Ultimate also does not contain any solvents therefore making it safe and easy to use.



RECOMMENDED FOR:

Bonding brick, ceramic, concrete, hardboard, plasterboard, plywood, stone, MDF, PVC and UPVC, domestic and exotic wood, ferrous and non-ferrous metals, marble, glass and much more.

Recommended for use in elastic bonding and sealing applications in construction such as:

- Installing windowsills, baseboards, steps, wall tiles, etc
- Maintenance work: metal bonding, ventilation & air-conditioning ductwork, etc
- Joints in building construction, joints between window frames and brickwork, ground joints
- Joints in prefabricated construction units
- Joints on external balconies and terraces
- Joints in metallic and wooden construction

NOT RECOMMENDED FOR:

- Polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE), acrylic
- Permanent water immersion
- Applications requiring temperature resistance greater than 176°F (80°C) or less than -22°F (-30°C)

FEATURES & BENEFITS:

Feature	Benefits
Sealant and Adhesive in One.....	Convenient and easy to use; One tube to complete multiple projects
Waterproof.....	Can be applied and cured underwater
Withstands temperature extremes.....	Intermittent exposure: Up to 212°F (100°C)
Cold Temperature Gunnable.....	Will extrude at low temperatures
Thick gel-like consistency.....	No stringing or dripping
High elasticity.....	Complies with ISO 11600-F-25HM
UV and Sunlight resistant.....	Will not yellow or crack
High Tack.....	High Instant Grab – minimizes bracing
Low odor.....	Great for indoor projects
Paintable.....	Professional results

Item #	Package	Size
1067356	Plastic Cartridge	10.1 oz. (300 mL)

COVERAGE

A 10.1 fl. oz. tube will extrude approximately 31 ft (9.5 m) of a 1/4" (6 mm) diameter bead.

DIRECTIONS

Tools Typically Required:

Utility knife, caulking gun, tooling device.

Safety Precautions:

Wear gloves. Apply in well-ventilated area. Wash hands after use.

Preparation:

The temperature of the adhesive, the surfaces and the working area must be between 41°F (5°C) and 104°F (40°C). For best results, ensure surfaces to be bonded or sealed are clean, dry, structurally sound and free of dust, grease, oil or other contaminants. Sand glossy surfaces to a dull finish to increase adhesion. Pre-fit all materials prior to applying product. Cut off tip of cartridge above screw threads. Screw on nozzle, remove the cap and cut the tip off the cartridge nozzle just above the threads to desired bead size.

Application:

As an adhesive:

Using a caulking gun, apply adhesive to one of the surfaces to be bonded. Press materials firmly together. If necessary, clamp or use tape to hold heavy items or items under tension together for at least 24 hours. Repositioning time is approximately 10 minutes. When bonding uneven or irregular surfaces, apply adhesive in dots or spots to bridge surfaces. When bonding two non-porous surfaces (i.e. metal to metal), do not cover both surfaces completely with adhesive, as it requires contact with air in order to cure. After use, wipe off nozzle tip and recap immediately.

As a sealant:

The joint width must be designed to suit the movement capability of the sealant. In general, the joint width must be greater than 10 mm (0.39") and less than 35 mm (1.37"). A joint width to depth ratio of approximately 1 : 0.5 must be maintained. Using a caulking gun, extrude sealant forcing into joint. Use a backer rod if necessary. To ensure proper adhesion, immediately tool the sealant. For sharp caulk lines use Polyseamseal® Caulk Mask. Remove the tape immediately or no later than 10 minutes after application. Wipe nozzle tip and recap cartridge immediately after use.

Clean-up:

Clean tools and uncured adhesive residue immediately with acetone or mineral spirits. Once cured, it cannot be removed with solvents. Cured adhesive may be carefully cut away with a sharp-edged tool.

STORAGE AND DISPOSAL

For best results, store above freezing, in a cool, dry place. Store away from heat, flame and sparks. Take unwanted product to an approved household hazardous waste transfer facility, or allow product to harden by spreading on discardable surface. Hardened material may be disposed of with trash.

LABEL PRECAUTIONS

WARNING! Contains trimethoxyvinylsilane (2768-02-7) and bis(2,2,6,6-tetramethyl-4-piperidyl)decanedioate (52829-07-9). Harmful if swallowed. Vapor harmful. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea. Use in a well ventilated area. Avoid eye and skin contact. Prolonged or repeated skin contact may cause dermatitis. Wash hands after using. Wear gloves and safety glasses when applying product. **FIRST AID:** For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wash with soap and water. If affected by inhalation, remove to fresh air and get medical attention. If ingested, do not induce vomiting. Call a physician or Poison Control Center immediately. For professional use only. See MSDS for more safety and health information.

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

Refer to the Material Safety Data Sheet (MSDS) 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.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	White	<u>Application Temperature:</u>	Apply and cure between 41°F (5°C) and 104°F (40°C)
<u>Appearance:</u>	Thick, non slumping paste	<u>Odor:</u>	Minimal
<u>Base:</u>	Moisture curing, Flextec™ polymer	<u>Repositioning Time:</u>	10 minutes (depending on bead size)
<u>Specific Gravity:</u>	1.39	<u>Cure Time:</u>	For a 2.5 mm bead depth: 24 hours (73°F (23°C) and 50% Relative Humidity)
<u>VOC Content:</u>	< 0.5% by weight	<u>Initial Tack:</u>	10 g/cm ²
<u>Shelf Life:</u>	18 months from date of manufacture (unopened)	<u>Recommended Joint Width:</u>	0.39" (10 mm) to 1.38" (35 mm)
<u>Lot Code Explanation:</u>	DD MM YYYY		
(Lot code is stamped on top of cartridge body near the nozzle)	For example: 05 03 2008 = March 5, 2008		

Typical Cured Performance Properties	
<u>Color:</u>	White
<u>Cured Form:</u>	Non-flammable solid
<u>Service Temperature:</u>	-40°F (-40°C) to 176°F (80°C)
<u>Chemical Resistance:</u>	Resistant to water, seawater, diluted alkalis, diluted acids, cement grout and water diluted detergents. Not recommended for permanent immersion in the above stated chemicals.
<u>Paintable:</u>	Yes, when fully cured. For best results wait at least 3 days.
<u>Water Resistance:</u>	Yes
<u>Elongation at Rupture Point:</u> (ISO 8339-A)	250%
<u>Elastic Recovery:</u> (ISO 7389-B)	85%
<u>Shrinkage:</u> (ISO 10563)	3%
<u>Movement capability:</u>	25%
<u>Tensile Strength:</u> (DIN 53 504)	1 N/mm ² (145 psi)
<u>Shore A Hardness:</u> (DIN 53 505)	40