



PUR 35 SL

Self-leveling, One-part Polyurethane Sealant

Technical Data Sheet

DESCRIPTION

BONDAFLEX PUR 35 SL is a one-component, high-performance, self-leveling, multi-purpose elastomeric, polyurethane sealant. Meets the requirements of ASTM C-920, Type S, Grade P, Class 25, Use T, M, G, A, O; TT-S-00230C, Type I, Class A; CAN/CGSB-19.13-M87 and California Air Resources Board 2003 requirements for Volatile Organic Compound content.

WHERE TO USE

Construction Application

- Expansion joints
- Pavers / sidewalks
- Plaza decks
- Industrial floors
- Parking garages
- Balconies
- Pitch pans

Structure

- Buildings
- Schools
- Parking
- Plazas
- Stadiums
- Prisons
- Factories

Location

- Horizontal
- Interior and exterior
- Above and below grade

Substrate

- Concrete, masonry, brick, aluminum, steel, painted metals, natural stones and ceramics

FEATURES

- High abrasion and tear strength
- One-component
- Self-leveling
- Joint movement $\pm 25\%$
- Excellent adhesion
- Paintable and sandable
- Non-staining
- Tack free surface
- Excellent weatherability
- 12 month shelf life

BENEFITS

- Longer wear and durability
- Ready to use, labor cost reduction
- No tooling / labor savings
- Excellent flexibility for dynamic joint movement
- Bonds to most substrates without priming
- Architecturally pleasing
- Improved aesthetics
- Low dirt pick-up
- Long lasting performance
- A minimum of 6 months longer than competition

TYPICAL PROPERTIES

Cured 7 days @ 75°F (24°C) and 50% RH

		TEST METHOD
Movement Capability, %	± 25	ASTM C-719
100% Modulus, psi (MPa)	75 (0.52)	ASTM D-412
Hardness, Shore A	30+ 5	ASTM C-661
Tensile Strength, psi (MPa)	300 (2.07)	ASTM D-412
Elongation at Break, %	1000	ASTM D-412
Peel Strength, pli	35	ASTM C-794
Bond Durability on glass, aluminum and concrete	$\pm 25\%$	ASTM C-719
Accelerated Weathering	passes	ASTM C-793
Staining	passes	ASTM C-510
Viscosity, cps Spindle 5, 5 rpm	50,000	Brookfield

Uncured

Skin-Over Time	1.5 hrs.	MNA Method
Tack-Free Time	3 hrs.	ASTM C-679
Cure Rate	1/16 inch/24hrs.	MNA Method
Rheological	self-leveling	ASTM C-639
Volatile Organic Content	3.90 % by wt.	
Service Temperature	-40° to 180° F -40° to 82.2° C	

Test results are averages obtained under laboratory conditions. Reasonable variations can be expected.

PACKAGING

- 29 fl. oz. (825 ml) disposable cartridges
- 600 ml sausage packs
- 4.5 gal (17 L) in a 5 gal pail
- 52 gal (197 L) in 55 gal drum

Special packaging available upon request – ask your local Representative for more information.

STORAGE/SHELF LIFE

When stored in the original, unopened containers at or below 75°F (24°C), shelf life is one year. A product skin may form in pails and drums, remove prior to use.

COLORS

Gray and Limestone. Custom colors are available upon request - ask your local Representative for more information.

EXPANSION JOINT DESIGN

1. The number of joints and the joint width should be designed for a maximum of ± 25% movement at time of installation.
2. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13mm) and the minimum is 1/4 inch (6mm).
3. To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion.
4. Closed cell backer rod should be 25% larger than joint width; do not compress more than 40%.

SURFACE PREPARATION

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination and laitance.

NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

PRIMING

BONDAFLEX PUR 35 SL is designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for primers **BONDAFLEX PUR 1000** or **BONDAFLEX PUR 1500** and contact Technical Service for additional information.

APPLICATION

Expansion Joint

1. Ready to use, apply using professional caulking gun. Do not open product container until preparation work has been completed.
2. Apply the sealant so that it is recessed 1/8 inch (3mm) below the surface. For parking deck joints, recess 1/4 inch (6mm). For highway joints, recess 1/2 inch (13mm). **BONDAFLEX PUR 35 SL** is self-leveling – no tooling is needed. Should tooling be required, DO NOT use soapy water or other liquids.
3. For cold or hot weather application, condition material to 65-75°F (18.3-24°C) prior to use.

CLEAN UP

Remove excess sealant from substrate while still uncured with commercial solvent, such as xylene. Cured sealant may be removed by mechanical means.

LIMITATIONS

- Do not allow sealant to come in contact with alcohol or solvent during cure.
- Do not allow sealant to come in contact with neutral curing silicones during cure.
- Immersed joint should be primed and cured (one week) before exposure.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Maximum depth of sealant must not exceed 1/2 inch (13mm); minimum depth 1/4 inch (6mm)
- White sealant may discolor when exposed to UV light, this does not

affect performance.

- Maximum application temperature 120°F (49°C).
- Do not apply to damp or wet substrates.
- Do not apply when vapor-transmission may cause sealant bubbling.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age 6 months before application.

FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. **SEEK IMMEDIATE MEDICAL ATTENTION.** In case of skin contact, wash affected areas with soap and water. If irritation persists, **SEEK MEDICAL ATTENTION.** Remove and wash contaminated clothing. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, **SEEK IMMEDIATE MEDICAL ATTENTION.** Refer to Material Safety Data Sheet (MSDS) for further information.

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. Use only with adequate ventilation. Keep container closed. Prevent contact with skin, eyes and clothing. Wash thoroughly after handling. **DO NOT** take internally. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/MSHA approved respiratory protection in accordance with applicable federal, state and local regulations.

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