

Seal Bond® Construction Solutions

Seal Bond® 450

High Movement Sealant

Product Description

Seal Bond® 450 is a high performance joint sealant for a wide range of construction applications. SB 450 delivers tough, elastic sealing performance, for joints requiring compression and extension greater than 50%.

Product Information: Features & Benefits

- Safe to Use - Solvent & Isocyanate Free
- Ultra-low VOC's, 21.22 g/L
- Non-silicone
- Non-flammable
- Primerless bonding to most surfaces
- Paint compatible
- Low odor
- Extremely low shrinkage - 100% solids
- Non-staining
- Mildew resistant
- Bonds to Kynar
- Non-slump, applies vertically and overhead
- +/- 50% joint movement

Standards & Compliance

- ASTM C920, Type S, Grade NS, Class 50
Uses NT, T, G, A & O
- Federal Specification TT-S-00230-C Type II, Class B
- Conforms to OTC Rule for Sealants and Caulks
- May contribute to LEED V4 EQ Material Resource Credit 4.1 - Adhesives and Sealants
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD

Ease of Installation

- Single component high solids formula
- Easily gunnable between 40° F and 100° F
- Cures rapidly to reach optimum strength within 7 - 14 days, full cure 21 days
- SB 450 can be installed on damp surfaces which is defined as when no moisture is transferred to the skin when the substrate is touched

High Performance Durability

- Does not dry or become brittle
- Water resistant
- Permanent elastomeric bond

Typical Properties

Please contact your Seal Bond Sales Representative before writing specifications around this product. Product properties are as follows:

Property	Typical Value	Units	Test Method
VOC's	21.22	g/L	ASTM C1250
Skinover time @ 50% R.H. 70 deg F	10	Min.	ASTM C679
Density	11.61	#/gal	
Hardness	26	Shore A	ASTM D676
Shear Strength	68	psi	ASTM D1002
Peel Strength:			
ABS Plastic	17.7		
Acrylic	12.2		
Aluminum	20.0		
Mortar	21.8		
Glass	19.0	pli	ASTM D903
Pine	22.4		
PVC	18.9		
Cold Rolled Steel	18.2		
Kynar	20.3		
Tensile	131	psi	ASTM D412-06
Elongation at Break	555	%	ASTM D412-06
Chemistry	Hybrid Polymer		
Movement	+/- 50	%	ASTM C920
Shrinkage	0 %		
Service Temperature	-40° F - 200° F		
Viscosity	1,585,000 910,000 301,000	cps @ 1 RPM cps @ 2 RPM cps @ 10 RPM	ASTM D2196-10

SB 450 typical values represent data from multiple batches. Values will be refreshed, as necessary, upon data collection from additional campaigns and long-term variability discernment.

Seal Bond[®] 450

Application

Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces. Maintain SB 450 at room temperature before applying to ensure easy gunning and tooling. Test and evaluate to ensure adequate adhesion. Carefully gun the sealant with a smooth, continuous bead. If tooling is needed, do so within fifteen minutes of application.

Concrete

Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing. On green concrete, remove all release agents and loose concrete. Dry all visible and/or standing water. Install an appropriate backer rod to avoid three-point bonding.

Metal

Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue using a wire brush. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.

* Seal Bond recommends that coated substrates be tested for proper adhesion prior to starting a project to determine suitability for use.

Wood

Wood should be clean, sound and dry prior to sealant application. Allow treated wood to weather for six months prior to application. Remove all coatings and paint to ensure proper adhesion. SB 450 is not recommended for use on fire retardant lumber.

Priming

In most applications SB 450 will not require a primer. However, certain substrates may require a primer to ensure a long lasting bond and waterproof seal. It is the applicator's responsibility to determine whether or not a primer is needed in their specific application.

Clean Up

Clean tools and any uncured adhesive with mild solvent such as mineral spirits.

Material Storage/Disposal

Store securely between 60° F - 80° F in unopened container. Shelf life is 12 months from date of manufacture on bottom of tube. Keep tube tightly sealed. Dispose of contents/ container in accordance with Local/Regional/National/International Regulations. Refer to Safety Data Sheet (SDS) for further information.

Shelf Life and Storage

The shelf life is 12 months for an unopened container from the date of manufacture. Reference the date of manufacture. YYMMDD ex. 190522 is May 22, 2019.

Colors



Packaging

- 10.1 oz. (300 ml) cartridges - 24 tubes/case, 45 cases/pallet

Warranty

Seal Bond warrants that our products are manufactured to strict quality assurance specifications. For warranty information visit: www.seal-bond.com/terms

Precautionary Statements

Do not use until all instructions and safety precautions have been read and understood. Wear protective gloves, protective clothing and eye protection. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. IF ON SKIN: Wash exposed body areas with soap and water. IF IN EYES: Rinse with water, remove contact lenses and continue rinsing. If exposed or concerned get medical advise/attention. Refer to Safety Data Sheet (SDS) for further information.