

Seal Bond® Construction Solutions

Seal Bond® 500

High Strength Sealant/Adhesive

Product Description

SB 500 is an extremely high-strength, one-component, elastomeric adhesive & sealant that permanently adheres to many construction materials without the use of primer. SB 500 is a low odor and 100% solids formula designed for interior and exterior construction applications. SB 500 is an environmentally friendly formula that contains no solvents or isocyanates and yields very low VOC's.

SB 500 is based on moisture cure hybrid polymer technology that reacts and cross-links in the presence of moisture to provide a durable seal with excellent weathering and UV resistance and performs in temperatures from -40° F to 200° F.

Product Information: Features

- 100% solids – no shrinkage
- Fast skin over – low dirt pickup
- Safe to Use – Solvent & Isocyanate Free
- Easily gunnable between 40° F and 100° F
- Ultra-low VOC's, 23.9 g/L
- May contribute to LEED V4 EQ Material Resource Credit 4.1 – Adhesives and Sealants
- Remains flexible to absorb expansion and contraction
- Cures rapidly to reach optimum strength within 7 – 14 days, full cure 21 days
- SB-500 can be installed on damp surfaces
- Low to no odor
- Paintable after 24 hours

Substrate Compatibility

- Aluminum
- Coated Metal
- Glass
- Wood
- EPS Foam
- SBS Mod. Bit.
- EIFS
- Stainless Steel
- Cold Rolled Steel
- Concrete
- Block and Brick
- Ceramics
- Fiberglass
- Primed TPO
- Many plastics

Standards & Compliance

- May contribute to LEED V4 EQ Material Resource Credit 4.1 – Adhesives and Sealants
- ASTM C920, Type S, Grade NS, Class 25 Uses NT, T, G, A & O
- Federal Specification TT-S-00230-C Type II, Class B
- Corps of Engineers CRD-C-541, Type II, Class B
- Conforms to OTC Rule for Sealants and Caulks
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to USDA Requirements for Non-food Contact

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	23.9	g/L	ASTM C1250
Skinover time @ 50% R.H. 70 deg F	7	Min.	ASTM C679
Density	12.86	#/gal	
Hardness	55	Shore A	ASTM D676
Shear Strength	190	psi	ASTM D1002
Typical Peel Strength			
Aluminum	30.4	pli	ASTM D903
Mortar	32.8		
Glass	39.0		
Pine	39.9		
PVC	37.1		
Cold Rolled Steel	36.2		
Cementitious Siding	32.3		
Tensile	431	psi	ASTM D412-06
Elongation at Break	501	%	ASTM D412-06
Chemistry	Polyether		
Movement	+/-25%		ASTM C920
Shrinkage	0%		
Service Temperature	-40° F to 200° F		
Viscosity	4,720,000 2,840,000 896,000	cps @ 1 RPM cps @ 2 RPM cps @ 10 RPM	ASTM D2196-10

SB 500 typical values represent data from 10 process runs of different size. Values will be refreshed, as necessary, upon data collection from additional campaigns and long-term variability discernment.

Seal Bond[®] 500

Application

Surfaces must be clean, and free from dust, dirt, and grease. Maintain SB 500 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 ten 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 500 is not recommended for use on fire retardant lumber.

Priming

In most applications SB 500 will not require a primer. However, certain substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine whether or not a primer is needed in their specific application.

Clean-up

Clean tools with an appropriate solvent such as alcohol. Avoid using water for cleanup.

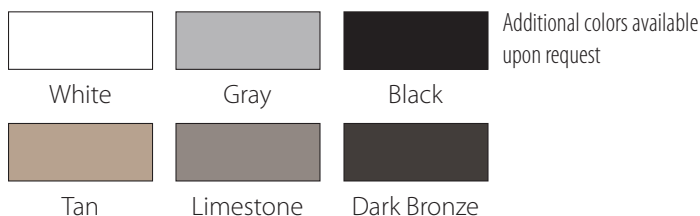
Material Storage/Disposal

Store securely between 60° F - 80° F in unopened container. Recommended 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 oz. (300 ml) cartridges - 24 tubes/case, 45 cases/pallet
20 oz (600 ml) sausages - 12 sausages/case, 90 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.