

Seal Bond® Construction Solutions

Seal Bond® 425

Building Envelope Sealant

Product Description

Seal Bond® 425 is a high performance sealant for virtually all building envelope applications. SB 425 delivers tough, elastic sealing performance, to most building and wraps. SB 425 is an environmentally friendly 100% solids formula that contains no solvents or isocyanates and yields very low VOC's.

SB 425 is a low odor and low shrinkage formula that provides non-sag performance for high movement joints. SB 425 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 weather resistance and performs in temperatures from -40° F to 200° F.

ASTM C920 Type S, Grade NS, Class 25, Uses NT, T, G, A, M *, and O.

* Requires a suitable primer to pass

Product Information: Features & Benefits

- Solvent and isocyanate free, 100% solids
- Non-silicone
- Non-flammable
- Fast-curing
- Primerless bonding to most surfaces
- Paint compatible
- Low odor
- Extremely low shrinkage
- Non-staining

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

Common Applications

- Parapets
- Block and Masonry
- Expansion Joints
- Siding
- Weather Sealing
- Cove Joints

High Performance Durability

- SB 425 can be installed on damp surfaces which is defined as when no moisture is transferred to the skin when the substrate is touched
- The cured bead exhibits excellent long-term adhesion to the porous surfaces
- Does not dry or become brittle
- Low odor, ideal for indoor and outdoor use

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	26.45 g/L		EPA Test Method 24
Skinover time @ 50% R.H. 70 deg F	14	Min.	ASTM C679
Density	14.58	#/gal	
Hardness	55	Shore A	
Shear Strength	167	psi	ASTM D1002
Peel Strength			
ABS Plastic	10.8		
Aluminum	11.4		
Mortar	11.5		
Glass	10.7	lbf/in.	ASTM D903
Pine	12.3		
PVC	9.9		
Cold Rolled Steel	10.2		
Tensile	205	psi	ASTM D412
Elongation at Break	144	%	ASTM D412
Chemistry	Hybrid Polymer		
Shrinkage	0%		
Service Temperature	-40° F - 200° F		
Viscosity	1,680,000 1,080,000 436,000	cps @ 1 rpm cps @ 2 rpm cps @ 10 rpm	ASTM D2196-10

SB 425 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[®] 425

Application

Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces. Maintain SB 425 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 425 is not recommended for use on fire retardant lumber.

Priming

In most applications SB 425 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 and any uncured adhesive with mild solvent such as mineral spirits.

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



White



Gray



Black

Packaging

- 10.1 oz. (300 ml) cartridges - 24 tubes/case, 45 cases/pallet
- 20 oz. (600 ml) sausages - 12 tubes/case, 90 cases/pallet

Warranty

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

Limitations

SB 425 should not be used in applications in which it will be permanently exposed to liquid water.

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 advice/attention. Refer to Safety Data Sheet (SDS) for further information.