

HB SEALANT

Multi-Purpose Sealant – 25% Movement

1. Product Data

Date of Preparation: July 14, 2015

Product Name: HB SEALANT

Producer: Hohmann & Barnard, 30 Rasons Court, Hauppauge, NY 11788

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2. Product Description

HB SEALANT is a multi-purpose, resilient joint sealant that combines economy and high performance. It is ideal for a wide range of applications where joint movement requires compression and extension in excess of 25%. Because HB SEALANT is a moisture-curing polyether sealant, **it is effective in damp, dry or cold climates** and is free of solvents and isocyanates. It will not shrink upon curing, bubble on damp surfaces as polyurethanes sealants often do, or discolor when exposed to UV light. HB SEALANT has excellent elastomeric properties and adheres to most construction materials including difficult surfaces such as Kynar 500® PVDF and other anodized metals and coatings. HB SEALANT is effective in many difficult construction site conditions: **It can be applied to damp surfaces at temperatures as low as 32°F (0°C).**

Basic Uses:

- Expansion joints
- Pre-cast concrete
- Block and Masonry
- Curtain Walls
- Window and door frames
- Siding
- Parapets
- Cove Joints
- Transportation
- Weather Sealing

Compatible Substrates:

Test and evaluate to ensure adequate adhesion.

- Concrete
- Block & Brick
- Stone
- Masonry
- Aluminum & Galvanized Metal
- Wood
- Engineered Plastics, Vinyl, PVC
- Glass
- Fiberglass FRP
- EPS Foam

3. Applicable Performance Standards

- ASTM C920, Type S, Grade NS, Class 25, Uses NT, T₂, M, G, A & O
- Federal Specification TT-S-00230-C Type II, Class B
- Corps of Engineers CRD-C-541, Type II, Class B
- Canadian Standards Board CAN 19, 13-M82

4. Regulatory Compliance

- Conforms to OTC Rule for Sealants
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- Conforms to California Proposition 65
- Conforms to USDA Requirements for Non-food Contact

5. Green Standards

- LEED 2.2 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1): **1 Point**
- NAHB Model Green Home Building Guidelines: **5 Global Impact Points**
- VOC Content: less than 19 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)

6. Advantages

- Solvent free, 100% solids will not shrink
- 30 minute skin over
- No outgassing on damp surfaces
- Non-slump, applies vertically and overhead
- Color stability, will not suntan
- Paintable within 24 hours (See limitations)
- Bonds to Kynar 500® PVDF coated metal

7. Preparatory Work

Joint Preparation: Joint surfaces should be clean, dry and free from all contamination including: dirt, oils, grease, tar, wax, rust and any other substance that may inhibit the sealant's performance.

Joint Design: Install all joint applications per ASTM and SWRI recommendations and guidelines. Joints shall be designed with a depth to width ratio of 1:2 (joint depth one-half the width). Control the depth of the sealant by using a polyethylene backer rod that is 25% larger than the joint opening at standard temperature. To prevent three-point adhesion use a backer rod or bond breaker tape to ensure proper joint movement and a long lasting weatherproof seal. Where the joint configuration will not permit a backer rod, HOHMANN & BARNARD recommends that an alternative bond breaker be used.

Joint Width Inches (mm)	Joint Depth Inches (mm)
1/4 - 1/2 (6-13)	1/4 (6)
1/2 - 3/4 (13-19)	1/4 - 3/8 (6-10)
3/4 - 1 (19-25)	3/8 - 1/2 (10-13)

HOHMANN & BARNARD recommends an appropriate substrate primer to be used on high moving joints or dissimilar substrates which require increased adhesion properties.

Primer: In most instances HB SEALANT will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. **HOHMANN & BARNARD recommends a primer be used for any application where prolonged immersion is anticipated.**

Typical physical Properties		
Gun Grade	Zero Slump	
Viscosity	862,100 cp	Brookfield RVF TF Spindle, 4 RPM, 73°F (23°C)
Density	13.2 +/- 0.2 lbs per gallon	ASTM D1475
Tack Free Time	30 min +/- 10 min	45 +/- 5 % R.H.
Elongation at Break	375%	ASTM C679
Hardness Shore A	25 +/- 3	ASTM C661

Typical physical Properties		
Shear Strength	157 psi	ASTM D1002
Tensile Strength	172 psi	ASTM D412
Low temp. flex	Pass -10°F (-23°C) 1/4 inch mandrel	ASTM D816
Shrinkage	No visible shrinkage after 14 days	
Service Temperature	-40°F to 200°F (-40°C to 93°C)	

8. Application Guidelines

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

Metal: Prepare all metal to ensure maximum adhesion. Remove all rust, scale and residue by wire brushing to a bright metal sheen. Remove films, loose or inappropriate coatings and oils with an appropriate solvent such as alcohol.*

**HOHMANN & BARNARD recommends that coated substrates be tested for adhesion prior to starting a project. Please contact our Technical Department for specific application guidelines and recommendations.*

Wood: Material 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 (or test for compatibility) to ensure proper bonding. Do not use on fire retardant lumber.

Primer: In most instances HB SEALANT will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer. **HOHMANN & BARNARD recommends a primer be used for any application where prolonged immersion is anticipated.**

Application: Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces with alcohol. **DO NOT USE petroleum solvents such as mineral**

spirits or xylene. Maintain HB SEALANT 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.

Clean-Up: Wet sealant can be removed using a solvent such as alcohol. Cured HB SEALANT can be removed by abrading or scraping the substrate.

9. Other Information

Storage: Store original, unopened containers in a cool, dry area. Protect unopened containers from water, heat and direct sunlight. *Elevated temperatures will reduce shelf life.* HB SEALANT will not freeze.

Shelf Life: Twelve months from date of manufacture when stored at 70°F / 21°C with 50% relative humidity. **High temperature and high relative humidity may significantly reduce shelf life.** Pails have a shelf life of six months.

Caution: *Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes immediately flush with water. Call a physician. Please refer to the SDS for First Aid information.* **Contact Hohmann & Barnard for most current SDS .**

KEEP OUT OF REACH OF CHILDREN.

Limitations:

- Horizontal applications will require tooling.
- In areas where prolonged chemical exposure is anticipated, contact us for recommendations.
- Allow treated wood to “cure” for six months prior to application per APA guidelines.
- Do not use in areas subject to continuous immersion.
- Do not store in elevated temperatures.
- Allow asphalt to cure a minimum of six months before applying HB SEALANT
- Remove all coatings and sealers before application.
- For applications below 32°F (0°C) contact Hohmann & Barnard for more information.
- Test and evaluate all paints before application. Polyurethane and oil based paints may dry slowly.
- Do not use on TPO without priming first.

WARRANTY: Contact the manufacturer for complete information on product warranty conditions, duration and remedies. Hohmann & Barnard, Inc. makes no warranties, either expressed or implied, of correctness and fitness for use for any particular purpose. The recipient agrees that any use of product information and electronic files is at their own risk. In no event shall Hohmann & Barnard, Inc., be liable for direct, indirect or consequential damages as a result of the recipient use or reuse of product information or electronic files. Hohmann & Barnard, Inc., shall be held harmless against all damages, liabilities or costs, including reasonable attorney fees and defense costs, arising out of or resulting from use of product information or electronic files.
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