

HD 150 Structural Adhesive and Sealant

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Product Description

ECO-BOND HD 150 is a no VOC, premium modified polymer adhesive/sealant designed for application in damp, dry or cold climates. **ECO-BOND** is petroleum free, solvent free, moisture curing and contains no isocyanates. **ECO-BOND** will not shrink upon curing, will not discolor when exposed to UV light, and can not “outgas” or bubble on damp surfaces as urethane sealants often do. **ECO-BOND** has excellent adhesion to most construction materials including Kynar and has resilient “elastomeric” properties. **ECO-BOND** is capable of joint movement in excess of 25% compression and extension. Because it cures in wet or dry climate conditions and at low temperatures (30° F), **ECO-BOND** can be used effectively in many difficult construction site conditions.

Advantages

- Non toxic
- Petroleum free
- Solvent free,
- Will not shrink, 100% solids
- 30 minute skin over, resists dirt pick up
- Glossy finish
- Excellent UV resistance
- Color stability, will not suntan or discolor
- Paintable within 1 hour
- Can be used between 2 non porous surfaces
- Can be used in a confined space
- Can be applied to 30 degrees

Typical Cured Properties

Shear strength 400 PSI ASTM D-1002
Tensile strength 300 psi
Peel strength 34 pli
Elongation at 400% ASTM D-412
Shore A Hardness 50 +/- 3 ASTM C-661
Low temperature Minus 10° F flex pass ¼ inch ASTM D-816 mandrel
Shrinkage No measurable shrinkage after 14 days
Service Minus 40° F to 200° F temperature continuous service
Non flammable
Can be applied to 2 non porous surfaces

Typical Uncured Properties

Viscosity: 800,000+ cps Brookfield RVF, TF spindle, 4 RPM, 73° F
Tack free time: 20 minutes, ASTM C-679
Odor Low
Shelf life: Cartridges: 1 year



Applicable Performance Standards

- ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O
- Federal Specification TT-S-00230-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CAN 19, 13-M82
- SWR Institute Validated (Sealant Waterproofing and Restoration)

Regulatory Compliance

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

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 at 240° F: less than 20 grams/liter (including water), ASTM D2369, EPA Method 24

Packaging

- 10.1 oz (300 ml) 24 cartridges/carton, 45 cartons/pallet
- 20 oz (825 ml)12 sausages/carton, 45 cartons/pallet
- 5 gallon pails and 50 gallon drums available by special order

Colors

Grey, White

* Color matching is available in batch quantity only

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, **ECO-BOND** recommends that an alternative bond breaker be used.

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.

Basic Uses

Sealing Siding, Wood, Vinyl, Aluminum, Cement, steel
Structural Adhesive and Sealant
Block and Masonry Repair
Window Installation
Sealing Gutters
Sinks and Tubs

Weather Sealing

Curtain walls

Roofing

Compatible Substrates*

Kynar

Concrete

Block and Brick

Stone

Masonry

Tile

Aged Asphalt

Wood

Drywall

Aluminum and Galvanized Metal

Engineered Plastics

PVC

Glass

Foam

EPDM

Application Guidelines

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 **ECO-BOND** at room temperature before applying to ensure easy gunning and leveling. 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.

Application Instructions

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.*

Concrete

Prior to application remove any residual contamination by mechanical abrasion, sand blasting or power washing.

On green concrete, remove all release agents and friable and loose concrete. Dry all visible and standing water prior to applying **ECO-BOND**. Install an appropriate backer rod to avoid three-point bonding.

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

PVC/Plastic

Remove all dirt, oil, loose paint, frost and other contamination from all working surfaces.

Apply a continuous bead of material tooling within 15 minutes.

Priming

In most instances **ECO-BOND** 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. **ECO-BOND** recommends a primer be used for any application where prolonged immersion is anticipated.

Limitations

- In areas where prolonged chemical exposure is anticipated, contact Technical Services 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 **ECO-BOND**
- Remove all coatings and sealers before application.

* **ECO-BOND** recommends that coated substrates be tested for adhesion prior to starting a project. Please contact Technical Services for specific application guidelines and recommendations.

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 MSDS for First Aid information. Most current MSDS can be found at www.ecobondadhesives.com.

KEEP OUT OF REACH OF CHILDREN.

Shelf Life

One year from date of manufacture when stored in normal environments. High temperature and high relative humidity may significantly reduce shelf life. Pails and special orders have a shelf life of three months.

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. **ECO-BOND** will not freeze.

Clean-Up

Wet sealant can be removed using a solvent such as alcohol. Cured **ECO-BOND** can be removed by abrading or scraping the substrate.

Read and ensure that the most up-to-date MSDS and technical guidelines are being followed. Proper use and application are the responsibility of the applicator. Direct any questions to Technical Services at 800-326-8102 prior to starting the project.

IMPORTANT NOTICE

Except where prohibited by law, **ECO-BOND** makes no warranties, expressed or implied, statutory or otherwise, including, but not limited to, any implied condition or warranty of merchant ability or fitness for a particular purpose. User is responsible for determining whether this **ECO-BOND** product is fit for a particular purpose and suitable for user's method of application.

LIMITATIONS OF REMEDIES AND LIABILITY

If this **ECO-BOND** product is proved to be defective, the exclusive remedy at **ECO-BOND** s option shall be to refund the purchase price of or to repair or replace the defective **ECO-BOND** product. **ECO-BOND** shall not otherwise be liable for loss of damages, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including negligence, warranty or strict liability.

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ECO-BOND Setting a new Standard, The Next Generation Sealant All Weather Construction Adhesive/Sealant