

FS100 – Farm Safe Adhesive

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Product Description

ECO-BOND® Farm Safe Adhesive/Sealant low VOC and non-toxic formulation make is the safest adhesives and sealant for use with livestock and planting and harvesting equipment. Farm Safe's bonding strength of over 200 PSI and underwater bonding capability make it the ideal solution for repairs on watering troughs, gutters and muddy pens. Farm Safe is both a heavy duty grade adhesive and a more flexible replacement for silicone that has been phased out in the new 2012 agriculture standards legislation. Farm Safe is a frost free product, it will not freeze in sub-zero temperatures making it ideal for all weather conditions.

Advantages

- 100% VOC Compliant
- Bonds Under Water
- Solvent Free
- Non-flammable
- Fast Setting
- High adhesion
- 100% solids
- Non-carcinogenic
- Will not shrink
- Complies with CA Prop 65
- Moisture Curing
- Fills gaps and forms bonds on irregular surfaces

Typical Cured Properties

Shear strength: 170 PSI
Tensile strength: 166 psi
Elongation at break: 250%
Shore A Hardness: 30
Low temperature: -20° F ¼ inch mandrel ASTM D-816
Shrinkage: No measurable shrinkage after 14 days
Service Temperature: -40° F to 200° F
Non-flammable
Weathering: No cracking or chalking after 2000 hours

Typical Uncured Properties

Viscosity: 400,000-500,000 cps at 72° F, Industrial Method
Tack free time: 65 minutes at 50% RH, 72° F, ASTM C-679
Odor: low
Skin Time: 60 minutes, Industrial Method
Shelf life Cartridges: 1 year



Regulatory Compliance

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

Green Standards

- 100% VOC Compliant

Packaging

- 10.1 oz -24 cartridges/carton

Colors

White

Joint Preparation

Joint surfaces should be clean, dry and free of dirt, debris, oil, rust and contamination that would interfere with adhesion. Clean metal and painted surfaces with alcohol or ammonia water. Abraded surfaces are acceptable but must be clean, sound and free of manufacturing defects.

Do not use on olefins such as polyethylene, polypropylene or TPO.

Basic Uses

Block and Masonry Repair
Bonds to decorative Brick and stone

Compatible Substrates*

Concrete
Block and Brick
Stone
Masonry
Aged Asphalt
Wood
Drywall
Aluminum and Galvanized Metal

Application Guidelines

ECO-BOND[®] Farm Safe Adhesive is a fast setting adhesive that can be use for filling gaps and forming bonds on irregular surfaces. . Bead sizes from 1/16 to ¼ inch diameter are used for various sized bonds. Optimum glue line thickness is 15 mils. Do not leave beads unassembled for more than 10 minutes. Bonds can be set and fixture with nails, screws, or staples until adhesive sets.

ECO-BOND[®] Farm Safe Adhesive will not shrink. It may be used for installing windows and doors. Fill the joint or void and tool to a smooth surface.

Application Instructions

ECO-BOND[®] Farm Safe Adhesive may also be applied using mechanical pumping equipment from drums and pails. Please contact technical services for assistance and specific pump drive applications.

Pre-fit all materials prior to application. Cut the cartridge tip to desired size, and puncture seal.

Application temperature range is 30° F to 100° F with optimum application from 60° F to 100° F. Low humidity or low temperature retard cure time. High humidity or high temperatures accelerate cure time.

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. Carefully gun the sealant with a smooth, continuous bead.

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.
- Do not apply at temperatures below 30° F
- 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.

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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