CARLISLE SYNTEC SYSTEMS

Sure-Flex™ PVC
HydroBond™ Water-Based Adhesive

Coverage Rates

Acceptable Substrates	Coverage Rates	
Smooth-Backed Membrane	**Roller (SF/Gallon)**	**Spray (SF/Gallon)**
Polyiso - Paper or Glass Facer	100	133
Gypsum Cover Boards	100	133
Plywood	100	133
FleeceBACK Membrane	**Roller (SF/Gallon)**	**Spray (SF/Gallon)**
Polyiso - Paper or Glass Facer	100	133
DensDeck®	100	100
DensDeck Prime®/SECUROCK®	100	133
Plywood	100	133

Overview

Carlisle's HydroBond PVC Water-Based Adhesive is a wet lay-in, one-sided dispersion adhesive. Compatible with TPO, PVC, and KEE HP FleeceBACK® membranes, this product is ideal for bonding only PVC membranes to various porous and non-porous substrates **(cannot be used with any KEE or KEE HP bareback membranes)**. See coverage rates chart for acceptable substrates. HydroBond is used to secure PVC membranes to clean and dry horizontal surfaces with up to a 2:12 slope and as a contact adhesive in vertical applications. This water-based adhesive is specially formulated to be in compliance with the state of California Clean Air Act of 1988 (updated in 1997) and as further regulated by California's Air Quality Control District's listing of VOC limitations. HydroBond also meets the requirements of the OTC Model Rule for Single-Ply Roofing Adhesives.

Features and Benefits

- Long-lasting, high-strength bond
- One-sided wet lay-in application saves time and labor
- Quickly and easily applied with a medium nap roller
- 12-month shelf life (sealed container)
- No HAZMAT restrictions

Application

1. The surface on or against which the adhesive is to be applied shall be clean, smooth, dry, free of fins, sharp edges, loose and foreign materials, oil, and grease. Depressions greater than ¼" (6 mm) shall be feathered using epoxy, mortar, or another approved patching material. All sharp projections shall be removed by sweeping, blowing, or vacuum cleaning.

2. HydroBond can be applied directly to the substrate using an airless spray machine or a medium nap roller. Do not apply HydroBond to splice areas to be hot-air welded. When applying HydroBond, ensure that the adhesive has not dried before the membrane is laid in place. This is a wet lay-in adhesive; drying occurs rapidly during high temperatures, and care must be taken to ensure the membrane is laid into wet adhesive. To ensure a wet lay-in, adjust the application technique according to weather conditions. Avoid heavy or thin application of adhesive. Roll the membrane into the wet, adhesive-coated substrate while avoiding wrinkles. Immediately brush down the bonded portion of the membrane with a soft-bristle push broom or a clean, dry roller applicator to achieve maximum contact and to work out any air bubbles. Immediately after brooming out from the center, roll the membrane in all directions with a minimum 100–150-lb (45–68 kg) weighted roller to achieve maximum contact. Pay particular attention to rolling the membrane along the insulation joints, especially on DensDeck Prime, due to the slight step-off of the facer.

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Standard Membrane (vertical walls two-sided contact method):

3. First, apply a medium to heavy coat of adhesive to the wall, and then apply a standard coat to the flashing membrane and allow to tack or string. Allowing the adhesive to dry will result in no adhesion strength. Avoiding wrinkles, mate the membrane with the adhesive-coated wall. Immediately broom the bonded portion of the sheet with a stiff-bristle push broom and roll the membrane, starting in the angle change and working the membrane up the wall. Use a 3"-wide "J" roller (preferred) to achieve maximum contact. Roll up from the base evenly and work in small sections, ensuring full attachment at the lower portions before moving to the top of the membrane. Until the termination detail can be completed, it may be necessary to temporarily pin or tape the top membrane edge to the wall to prevent membrane curl-back.

Review Carlisle specifications and details for complete application information.

Precautions

- Review the applicable Material Safety Data Sheet for complete safety information prior to use.
- Keep container closed when not in use. Use with adequate ventilation.
- If swallowed, DO NOT INDUCE VOMITING. Call a physician immediately.
- Avoid contact with eyes. Safety glasses or goggles are recommended. If splashed in eyes, immediately flush eyes with plenty of water for at least 15 minutes. Contact a physician immediately.
- Avoid contact with skin. Occasional contact with hands or skin does not result in significant irritation unless it is not allowed to evaporate. Prolonged contact may cause irritation and dermatitis. Wash your hands thoroughly after handling.
- Jobsite storage temperatures in excess of 99°F (37°C) may affect product shelf life. DO NOT ALLOW PRODUCT TO FREEZE. Do not store below 40°F.
- Do not thin the HydroBond Adhesive. Thinning will affect performance.
- Adhesive will dry quickly in dry, hot climates, drying will affect adhesion. Dry time is dependent on ambient conditions.
- This adhesive is to be applied when the ambient temperature is 40°F (4°C) and rising. Do not apply if ambient temperature will drop below 32°F (0°C) before adhesive completely dries (normally 72 hours, longer if colder).
- **Do not use with KEE or KEE HP bareback membranes**
- Extended drying times can be expected in cool or humid conditions as well as shaded areas. Not allowing the adhesive to dry in a standard membrane application will result in poor adhesion strength or blistering over time.
- KEEP OUT OF THE REACH OF CHILDREN.

Typical Properties and Characteristics

Property	Value
Color	Light tan
Average Net Weight	9 lbs/gal
Packaging	5-gal pail
Shelf Life	1 year

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

LEED® Information

Pre-consumer Recycled Content	N/A
Post-consumer Recycled Content	N/A
VOC Content	Less than 120.5 g/l
Manufacturing Location	Ohio

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