

TECHNICAL DATA BULLETIN
CARLISLE SYNTEC a DIVISION OF CARLISLE CONSTRUCTION MATERIALS
INCORPORATED

CARLISLE FAST™ ADHESIVE BOX SET

GENERAL:

FAST Adhesive Box Sets are a two-component, construction-grade, low-rise, insulating polyurethane adhesive designed for bonding Carlisle's FleeceBACK® membranes or insulation to various substrates. FAST Adhesive is compatible with: HP Fiberboard, HP Polyiso, expanded polystyrene (EPS), extruded polystyrene (XPS), spray polyurethane foam (SPF), DensDeck®, Securock® and OSB. Compatible deck types include concrete, cellular lightweight concrete (LWC), gypsum, cementitious wood fiber, wood and painted or galvanized steel. FAST Adhesive is also compatible with the following roofing materials: smooth (previously exposed) or gravel BUR, mineral cap sheet, smooth (previously exposed) or granulated Mod-Bit, coal tar pitch, aged EPDM, aged Hypalon and Carlisle's 725TR Vapor Barrier. FAST Adhesive is spray applied to produce a strong, low-rise adhesive with superior wind uplift resistance and a nominal, free-rise core density of 2.5 pounds per cubic foot.

TYPICAL PROPERTIES AND CHARACTERISTICS:

Base	Box Set-A Polymeric Isocyanate	Box Set-B Polyols, Surfactants & Catalyst
Viscosity (CPS@25°C)	250	200
Avg. Net Weight	10.25 lbs/gal	9 lbs/gal
Packaging	34 lb. (15.3 kg) Box (A&B)	34 lb. (15.3 kg) Box (A&B)
Shelf Life	1 year	1 year

Typical R-value added for the use of FAST adhesive over smooth surfaces is 0.2 to 0.5 R
R-value may be higher as more adhesive is used on uneven surfaces.

CAUTIONS AND WARNINGS:

- 1. Review the applicable Material Safety Data Sheet for complete safety information prior to use.**
- The foam produced is an organic material. It must be considered as combustible and may constitute a fire hazard. The foam adhesive must not be left exposed or unprotected. Shield from heat and sparks.
- Do not smoke during application.
- Use with adequate ventilation. Avoid breathing vapors. Wear a NIOSH or MSHA approved respirator for organic vapors with prefilters and solvent resistant cartridges or supplied airline respirators while spraying. Proper safety training is essential for all persons involved in the installation process. If inhaled, remove to fresh air and administer oxygen if breathing is difficult. Consult a physician immediately.
- Avoid contact with eyes. Safety glasses or goggles are required. If product is splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes. Contact a physician immediately.
- Avoid contact with skin. Wear long sleeves and pants. Wash hands thoroughly after handling. In case of contact with skin, thoroughly wash affected area with soap and water or corn oil. NOTE: Permeation resistant gloves that meet ANSI/ISEA 105-2005 are required when handling the material directly or during it's application.
- Job site storage temperatures in excess of 90°F (32°C) may affect product application. Should the components be stored at temperatures lower than 70°F (20°C), restore to room temperature prior to use. Do not allow FAST Adhesive to freeze (storage below 0°F (-18°C) for at least 3 days).
- Use spray booths, windscreens and lower spray pressure when spraying in windy conditions.
- All air intake vents on roofs must be closed during application of FAST Adhesive.
- FAST Adhesive Box sets do not adhere well to previously unexposed asphalt products when applied in bead form. Cav-Grip or 702 Primer is required for bead application.
- 11. KEEP OUT OF REACH OF CHILDREN.**

COVERAGE RATE: (may vary due to job site conditions)	<u>per Box Set</u>
FleeceBACK with FAST adhesive to a smooth flat surface	225 sq.ft.
Insulation attachment to:	
• Smooth Gypsum, LWC, Concrete, Wood, Steel, Smooth BUR, Mod-Bit, Mineral Cap, or multiple layers of insulation.	180 sq.ft.
• Fibrous Cement	140 sq.ft.
• Gravel BUR	110 sq.ft.

APPLICATION: **

1. The surface to which adhesive is to be applied shall be smooth, dry, free of fins, sharp edges, loose and foreign materials, oil and grease. Depressions greater than 1/4" (6 mm) shall be filled with FAST Adhesive or other approved patching material. All sharp projections shall be removed by sweeping, blowing or vacuum cleaning. Previously unexposed asphalt must be primed with Cav-Grip or 702 Primer for bead application.
2. **Seal gaps between the wall/penetration and concrete deck with Carlisle 725TR or other suitable material to avoid condensation issues and positive pressure from air infiltration.**
3. For re-roofing sprayed-in-place urethane roofs, all wet areas must be removed. The surface must then be scarfed or perforated, depending on the coating, before applying FAST Adhesive.
4. Apply FAST Adhesive Box sets when the substrate and ambient temperature is 60° F (16° C) or above.
5. For best results use when material is between 75° F to 85° F (24° to 29° C) and shake kits before use.
6. Apply petroleum jelly to face of gun before attaching the spray nozzle. Open tank valves.
7. Once spraying begins and then stops the trigger must be reactivated within one minute or a new nozzle must be installed.
8. Never use solvents to clean the plastic gun parts.
9. After tanks are empty they must be vented using the appropriate personal protective equipment.

FLEECEBACK INSTALLATION:

1. Unroll FleeceBACK sheet and position accordingly. Fold sheets in half width-wise.
2. Spray FAST Adhesive on the substrate to obtain full coverage.
3. Allow adhesive to rise and develop string/body (approx. 4-5 minutes at room temperature), then roll FleeceBACK membrane into FAST Adhesive.
4. Roll membrane with a roller (not to exceed 150 lbs.) to insure fleece embedment. If adhesive contaminates the splice area remove immediately with splice cleaner or splice primer.

INSULATION ATTACHMENT:

1. Spray FAST Adhesive on the substrate obtaining full coverage.
2. **Place insulation boards into FAST Adhesive after allowing it to rise and develop string/body (approx. 4-5 min. at room temperature). String time will vary based on environmental conditions like temperature and humidity.**
3. Designate one person to walk and roll boards into place using the roller adding constant weight or slitting boards where necessary until adhesive sets-up.
4. Designate one person to walk boards into place and then roll the boards between 5 -7 minutes from the initial adhesive application. Boards may be temporarily weighted or relief cut where necessary to keep the boards in constant contact with the adhesive until adhesion occurs.

* General properties. 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 or specification range for any particular property of this product.

** REVIEW CURRENT CARLISLE SPECIFICATIONS AND DETAILS FOR SPECIFIC APPLICATION REQUIREMENTS.

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