

RubberCover Bonding Adhesive BA-2016 S/TF

1. Description

The Firestone Bonding Adhesive BA-2016 S/TF is a sprayable solvent-based contact adhesive specifically designed for bonding Firestone RubberCover™ EPDM membranes to approved insulations in addition to wood, metal, masonry and other acceptable substrates.



2. Preparation

Surfaces that will receive BA-2016 S/TF must be clean, smooth, dry and free of sharp edges, loose and foreign materials, oil, grease, and other contaminants. If necessary, the mating surface shall be cleaned with a brush or a clean cloth. Remove any moisture and contaminants from the surface before applying the adhesive. Restore the adhesive to room temperature (10°C-25°C) before use if the product has been exposed to temperatures below 10°C or above 25°C for a prolonged period. This will allow the adhesive to regain the appropriate viscosity. The canister has to be shaken before each use in order to improve the mixing of the components. Keep the canister inside its carton packaging as much as possible, also during installation. It is not necessary to shake the aerosol can. Test the adhesive on a piece of scrap membrane prior to the start in order to check its consistency in color and texture.

3. Application

Gently spray the BA-2016 S/TF onto both surfaces to be adhered. Apply the adhesive onto the EPDM membrane last. The ideal distance between the surface and the spray gun is 20 - 30 cm. Try to apply the correct amount of adhesive in a single layer and avoid areas of accumulation. Care must be taken not to apply BA-2016 S/TF over seaming areas.

Application temperatures may vary between 5°C and 25°C. At temperatures below 5°C, the adhesive may become too thick, and consequently, an insufficient quantity of adhesive may be sprayed on the surface. At temperatures above 25°C, and especially with the membrane exposed to the sun, the adhesive may skin over and drying times will be extended. Also at high temperatures, protect the canister and hose from direct sunlight. If the canister heats up, it may affect the spraying pattern. Allow the adhesive to flash off completely before mating the surfaces. Test the adhesive for its dryness using the touch-push test procedure. Mate the membrane to the substrate and apply sufficient pressure with a broom.

Refer to the Firestone application guidelines and the Technical Information Sheet of the Spray Gun Professional & Hose for additional and specific installation instructions.

4. Coverage

Coverage rates depend on the smoothness and porosity of the substrate:

- 750 ml spray aerosol can: 1.2 - 1.5 m² of roof area (two-side application)
- Maximum 70 m² per 22 L pressurized canister (two-side application)

Some surfaces are uneven and porous and will result in lower coverage rates while smoother substrates and/or less porous will result in high coverage rates. Very porous substrates (rough wood, concrete block) may even require an additional coat of adhesive to ensure proper adhesion. This can be determined by adhering a small piece of membrane to the substrate and verify its bonding strength.

5. Characteristics

Physical	
•	Toluene and DCM free
•	Excellent resistance to aging
•	Good resistance to heat and cold
•	Excellent tack time, dries quickly
•	Outstanding adhesion to approved substrates

Technical	
•	Base Blend of SBR rubbers
•	Color Green
•	Solvents Acetone, Butanone, n-Hexane
•	Solids 39 ± 1%
•	Viscosity (cP) 200 – 600
•	Specific gravity 0.82 ± 0.01
•	Flash Point -35°C

6. Packaging / Storage / Shelf life / Disposal

Packaging	750 ml spray can: 12 cans/carton - 76 cartons/pallet 22 L pressurized canister: 36 canisters/pallet
Part Number	• W56RAC1084T - 22 L pressurized canister • W56RAC1085T - 750 ml spray can

Storage: Store at moderate temperatures (10°C-25°C) in a dry, well-ventilated area. Do not store at less than 5°C to avoid the product becoming unusable. Keep away from heat, sparks, and open flame. Protect from direct sunlight and do not expose to temperatures exceeding 30°C. If necessary, use an insulated box to maintain the product at moderate temperatures during transport to the job site, before and during application. This will assure the appropriate viscosity, efficiency, and quality of the adhesive. Do not pierce or burn the cans. Always carry the canister, even when in its carton, by its handle located at the top of the canister. Do not manipulate or carry the carton by its sides or corners because the canister may drop through the bottom of the carton.

Shelf life: 12 months can be expected if stored in the above-mentioned conditions. Verify production date on each packaging. Shelf life will be reduced if exposed to lower or higher temperatures, as mentioned above. Shelf life information is only a recommendation. The real expiration date highly depends on the method of storage and handling.

Transport: The maximum total quantity of 22 L canisters per transport (whether on their own or where products are combined in a transport) should not exceed 333 liters (19 canisters), otherwise special ADR transport must be organized. The carrier must have 2 fire extinguishers in all cases. Relevant placards must be affixed on the trailer when above-mentioned quantity is exceeded. As the 22 L canisters are classified UN 3501, there are specific additional requirements: canisters must be transported in a cardboard box, and the truck must be ventilated. A standard curtain-sider is considered a ventilated truck. If a box trailer is used (hard sides), then it must be mechanically ventilated, otherwise, a warning sign should be affixed on the trailer “warning – no ventilation, open with caution”. Unloading of closed vehicles shall not be done by people carrying equipment that can ignite any flammable vapors. The 22 L canisters cannot be transported when connected with spray application equipment, with the exception of canisters transported to and from a job site and that are already in use. Sprayable adhesives in canisters (UN3501) cannot be shipped overseas together with other bonding adhesives (UN1133).

Disposal: Dispose the canister safely and in accordance to national regulations. Empty and depressurised canisters can be disposed as old metals. Preparation to dispose the canister as scrap metal (empty aerosol, no hazardous residues):

- Step 1 - remove the hose and connect it directly on another canister to avoid dry solids clogging the hose.
- Step 2 - open the canister valve on top to release the remaining gases.
- Step 3 - use non-sparking tools to perforate the canister at the weak round spot on top of the canister.
- Step 4 - remove the flammable gas label.

Non-empty canister and/or canisters that are still pressurized must not be punctured and must be disposed as dangerous goods in accordance with relevant legislation or local waste company.

7. Precautions

Refer to Safety Data Sheet. Extremely flammable. Keep away from possible ignition sources during storage and use. Do not smoke when using. For professional use only. Use only in well-ventilated areas. The canisters are highly pressurized and must not be stored in locations where crushing or puncturing of the canister is possible. The canisters are not suitable for a refill. Do not disassemble or make adaptations to the spray gun. Avoid prolonged inhalation and contact with skin and eyes. Keep out of reach of children.

Protect all areas subject to "overspray" of the adhesive. This includes but is not limited to:

- Cars parked adjacent to the building receiving the adhered roofing membrane;
- Air intakes/ exhausts on the roof
- HVAC units, drains, access hatches, skylights and windows and any other item or person which may be downwind from spraying the adhesive.

Do not apply the adhesive when wind conditions are not favorable.

This document replaces any other document published previously. This sheet is meant to highlight Firestone product information based on the latest knowledge and experience and is subject to change without notice (check the Firestone website for the latest document version). Above mentioned values are based on tested samples and may vary within applicable tolerances. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. No Firestone representative is authorized to vary this disclaimer.