

RUFKO SHIELD™ INSTRUCTIONS FOR APPLICATION

TOOLS NEEDED FOR INSTALLATION:

1) Utility knife, 2) Hand Roller, 3) Gloves, 4) 3M Super 77 Spray Adhesive

INSTRUCTIONS FOR APPLICATION

INTENDED USES:

Install Rufco Shield beneath the primary siding system as a backup waterproofing system. Use Rufco Shield to flash around windows and doors in new construction and in replacement installations. Rufco Shield may be used to seal joints, vents and other openings under most exterior siding including brick, stucco, wood and vinyl or metal siding. Rufco Shield may replace ordinary Kraft paper or building wrap in wall system construction where extra protection is required, and it may be used to seal the joints of rigid insulation or gypsum board.

SURFACE PREPARATION: Rufco Shield may be applied directly to most vertical or horizontal surfaces. Acceptable surfaces to receive the membrane include wood, composition wood panels, rigid insulation, metal, vinyl and masonry. The surface to receive Rufco Shield must be clean, dry and free from oil, grease or debris.

Prime (and allow to dry completely) all dirty, dusty or weathered surfaces with a water-, polymer-, or solvent-based primer to obtain a smooth, clean surface. Some wood composition panels, particularly oriented strand board (OSB), may require priming or use of 3M Super 77 Spray Adhesive. Rufco Shield may be mechanically attached using nails, screws, staples or other types of fasteners where the surface cannot be made smooth, clean and dry. Apply Rufco Shield in fair weather at temperatures above 50°F. Test adhesion to the substrate with a hand sample before proceeding.

If the product is to be applied in cool weather the rolls should be stored in a warm place until needed and an electric heat gun may be used to gently warm the substrate and/or 3M Super 77 Spray Adhesive may be used.



INSTALLATION HINTS:

- Surface must be clean, dry and free from oil and grease.
- Prime as necessary and allow to dry in order to assure positive adhesion.
- Apply in clear weather at temperatures above 50°F.
- Use 3M Super 77 Spray Adhesive for marginal temperatures and conditions.
- Apply uniform pressure by rolling the surface with hand roller.
- Do not expose to direct sunlight for more than 180 days.
- Do not install over uncured solvent-based sealants.
- Always use 3M Super 77 Spray Adhesive when applying to concrete, masonry, Dens-Glass, or when sufficient adhesion cannot otherwise be obtained.

Rufco Shield is applied like a tape to connect and seal the window flange to the surrounding surfaces. The product is installed by removing the release paper and rolling the membrane onto the surface. To simplify handling on vertical surfaces, cut the membrane to fit window or into lengths of no more than 10'-12'. Rufco Shield may be cut using scissors or utility knife.

Rufco Shield is a pressure sensitive product. Carefully unroll the sheet without stretching, peeling off the release paper and pressing the membrane into place as you go, making sure to eliminate air pockets and keeping the roll properly aligned. Roll with a hand-held roller to assure smooth, uninterrupted contact. So that any moisture flows over the laps, start with the bottom strip and work up. Side strips should be installed next and should overlap the bottom strip. The head of the window should be stripped in last. Rufco Shield adheres to the substrate and to itself when overlapped. When necessary, overlap by at least 4".

No special tapes or sealants are required under ordinary circumstances. However, where an extraordinary condition interferes with smooth installation a bead of premium exterior grade caulk may be used at the edge to fill any voids. **Do not encapsulate uncured solvent-based caulks by covering with Rufco Shield as the asphalt compound may liquefy and run.**

Slight adjustments in direction are possible by guiding the roll during application. If a major change in direction is necessary, cut the sheet with a razor knife, overlap the sheet 4", realign and start again. Small wrinkles are not desirable, but can be smoothed out and will not affect the performance of the membrane. Large wrinkles should be avoided and repaired, if necessary, by cutting and patching the area with Rufco Shield.

INSTALL PER DIAGRAMS

Use 3M Super 77 Spray Adhesive as necessary to improve bond. Staples may be used to help attachment. Roll all sections of Rufco Shield to maximize adhesion and eliminate air pockets.

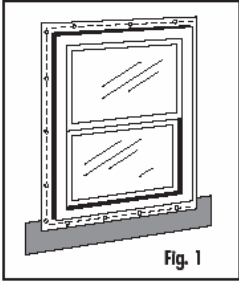


FIGURE 1:

Install Rufco Shield at the sill. Cut section of Rufco Shield the width of rough opening plus at least 12". Remove paper, center and install across the sill. Make two cuts so that the top half extends into the rough opening and the other half is bonded to the sheathing. Set the window frame into the rough opening and fasten to the substrate through the flanges per window manufacturer's recommendation. Membrane should be visible below the sill flange. If window has already been installed, Rufco Shield may be applied over the bottom flange.

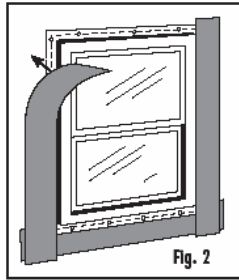


FIGURE 2:

Adhere vertical sections of Rufco Shield over the jamb flanges and to the sheathing. Section should overlap the sill section at the bottom and extend 3" above rough opening at the top.

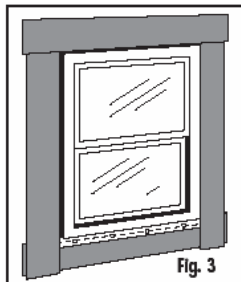


FIGURE 3:

Adhere Rufco Shield to the head flange and sheathing. Head section should extend beyond jamb sections on either side. Jamb sections should not extend above head section.

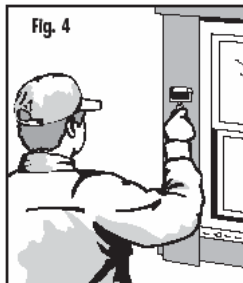


FIGURE 4:

Roll seams with a hand-held roller to assure smooth, uninterrupted contact. Start with the bottom strip and work up so that any moisture flows over the laps.