Installation Procedures for DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ in the DuPont™ Thermax™ Wall System

SYSTEM OVERVIEW

Description

DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ is approved for use as a flashing and joint treatment in DuPont™ Thermax™ Wall System. **Tyvek® Fluid Applied Flashing and Joint Compound+** is a full-bodied brushable and/or trowel applied flashing, which is highly elastic when cured. **Tyvek® Fluid Applied Flashing and Joint Compound+** is water insoluble and can be applied at temperatures as low as 25ºF.

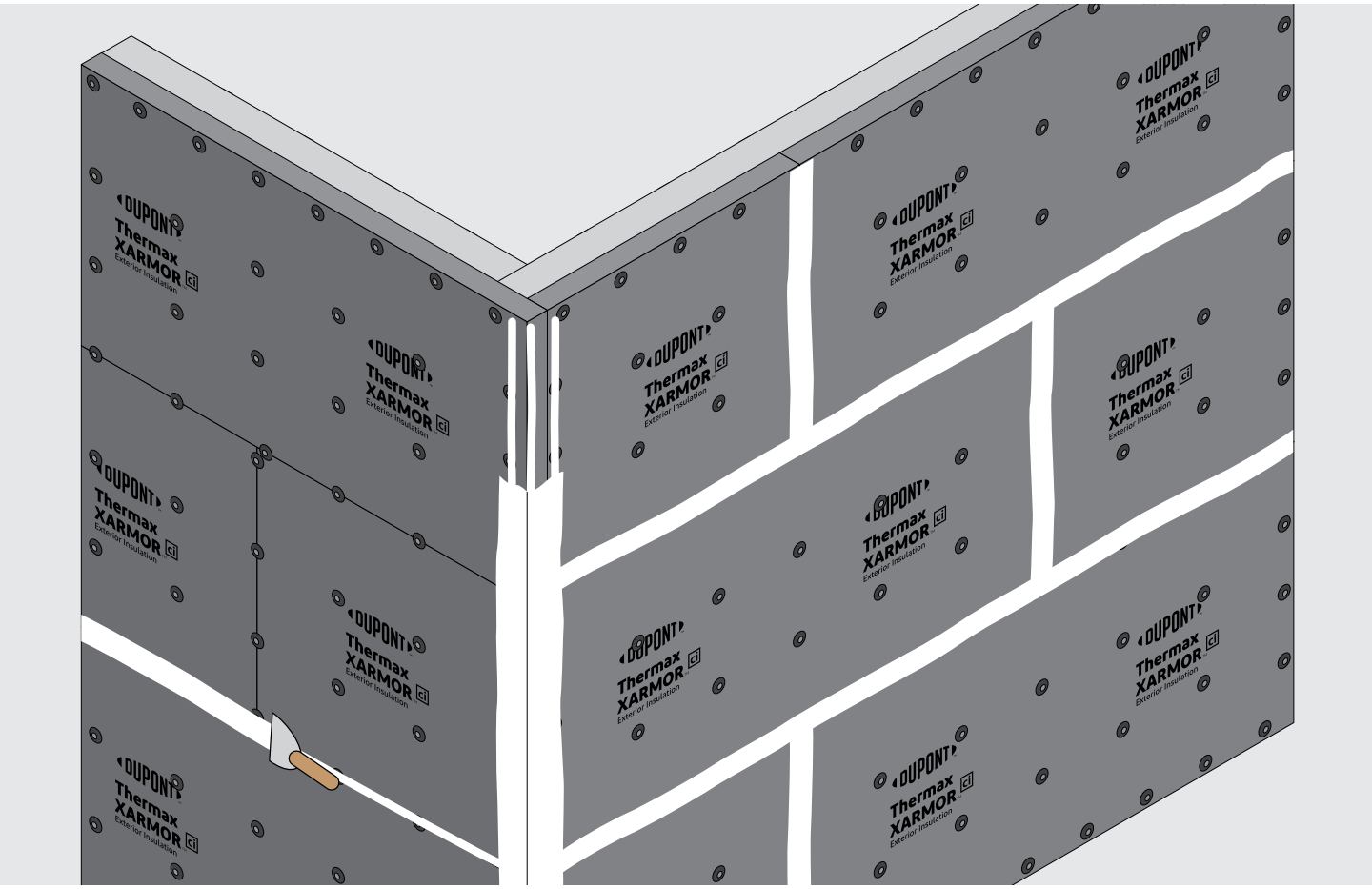
Tyvek® Fluid Applied Flashing and Joint Compound+ is designed to be used to flash rough openings for windows and doors; to fill seams, cracks, and holes in a substrate; to seal around penetrations; and to treat joints and transitions between building components.

Tyvek® Fluid Applied Flashing and Joint Compound+ passes AAMA 714-15 *Voluntary Specification for Liquid-Applied Flashing Used to Create a Water Resistive Seal Around Exterior Wall Opening in Buildings.*

Tyvek® Fluid Applied Flashing and Joint Compound+ is an acceptable flashing and joint treatment for use with DuPont™ Thermax™ Wall System in NFPA 285 approved assemblies.

Sizes

Tyvek® Fluid Applied Flashing and Joint Compound+ is available in 28 oz. disposable cartridges and 3.5 gallon pails.



EQUIPMENT GUIDELINES

Cartridge Gun Selection

DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+ can be applied using a standard sealant gun designed for 28 oz. cartridges. Either a standard conical nozzle or fan nozzle laying down a wide bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** on the substrate can be used. This liquid flashing can then be easily brushed or troweled to the designated mil thickness.

Alternatively, **Tyvek® Fluid Applied Flashing and Joint Compound+** can be removed from a pail and directly trowel applied or brushed over wall substrates.

Wet Mil Gauge

A wet mil gauge will help ensure **Tyvek® Fluid Applied Flashing and Joint Compound+** is applied at 25 mils, optimizing product yields and performance at most interfaces.

Theoretical Yield at 25 mil thickness

Tyvek® Fluid and Flashing Compound+ has an average yield of 2.5-3.5 lf/oz. at 2 inch width.

INSTALLATION INSTRUCTIONS

Please refer to the ***DuPont™ Tyvek® Fluid Applied WB+™ Wall and Substrate Guidelines*** for additional information on product uses beyond those captured within this document.

Safety and Conditions of Use

1. *Before you begin applying **Tyvek® Fluid Applied Flashing and Joint Compound+**, prepare the jobsite.*

- As with any construction site, follow basic safety practices, reading and following all equipment and SDS instructions.
- **Tyvek® Fluid Applied Flashing and Joint Compound+** does not pose a respiratory hazard. Protective gloves must be worn to avoid potential skin irritation. Always wear safety glasses with side shields or goggles.
- Check current outdoor temperatures and forecasted weather for the day. Surface and ambient temperatures should be above 25ºF and below 140ºF during the application of **Tyvek® Fluid Applied Flashing and Joint Compound+.** Do not apply the product on surfaces with standing water or frost. **Tyvek® Fluid Applied Flashing and Joint Compound+** can tolerate rain within 15 minutes of application, and has a skin-over time of 1-2 hours at 70ºF and 50% RH. If the ambient temperature is lower, skin-over time may be longer.

Surface Preparation

2. *Check & Prepare All Installation Surfaces*

- **Tyvek® Fluid Applied Flashing & Joint Compound+** can span gaps up to 1/4". For gaps 1/4"-1/2" wide, apply self-adhered reinforcing mesh tape over the joint before applying the flashing. For joints larger than 1/2", contact your local DuPont representative for suggestions.
- Note that **Tyvek® Fluid Applied Flashing and Joint Compound+** is designed to span nonmoving joints (joints that move < 15%). If more movement is needed, consider traditional expansion joint treatments or contact your local DuPont representative for suggestions.

Application

3. *Flash Foam Board Joints, Penetrations, Rough Openings and/ or Counterflash*

- Flash board joints, penetrations and/ or fenestration openings as detailed by the project drawings by applying **DuPont™ Tyvek® Flashing and Joint Compound+** from either a 28 oz. sealant gun or directly from a pail onto the substrate. Brush or trowel the **Tyvek® Fluid Applied Flashing and Joint Compound+** to 25 wet mils.
- **Tyvek® Fluid Applied Flashing and Joint Compound+** is a critical component of the building envelope. Proper installation is required for the flashing to protect the building from air infiltration and water penetration as well as meet all code requirements.

Foam Board Joints

Apply a bead of **DuPont™ Tyvek® Fluid Applied Flashing and Joint Compound+** on each side of the sheathing seam. Smooth **Tyvek® Fluid Applied Flashing and Joint Compound+** across the joint using a brush or trowel. **Tyvek® Fluid Applied Flashing and Joint Compound+** must extend a minimum of 1" on either side of the joint. Fasteners and washers along the board joints should be completely covered with **Tyvek® Fluid Applied Flashing and Joint Compound+.** When covering fasteners and washers, extend the flashing 1 inch onto the substrate from the outer edge of the washer. Be sure to check for thin spots and pin holes. Repair as necessary.

Treat all inside and outside corners by applying a 25 mil thick coat of **Tyvek® Fluid Applied Flashing and Joint Compound+**, 2" onto each adjoining surface. It is recommended that a fillet bead of **Tyvek® Fluid Applied Flashing and Joint Compound+** be applied to corners to help ensure continuity.

Rough Openings

Extend **Tyvek® Fluid Applied Flashing and Joint Compound+** a minimum of 3 inches onto the sheathing face, completely covering the sheathing board edge around the entire perimeter of the rough opening. Then, extend **Tyvek® Fluid Applied Flashing and Joint Compound+** a minimum of 3 inches back onto the rough opening substrate or 1 inch behind where the primary air and water seal is to be installed, whichever is greater.

When fasteners are going to penetrate the sill of the rough opening, **DuPont™ StraightFlash** must be used.

Prepare the sill flashing by cutting a piece of **StraightFlash™** the width of the sill.

To install the sill flashing, remove release paper and position **StraightFlash™** so that 2" will extend onto the face of the wall below the sill. Wrap flashing into the rough opening at sill and onto the face of the wall. **StraightFlash™** along the rough opening sill should be positioned to be 1 inch (min) beyond the primary air seal, to ensure primary air and water seal can be properly installed. Apply pressure along entire surface of flashing for a good bond using firm hand pressure, J-roller, or alternate tool without sharp edges (such as a plastic carpet tuck tool) to assist with application of uniform pressure during installation of **StraightFlash™.**

The **Tyvek® Fluid Applied Flashing and Joint Compound+** should be applied on top of the **StraightFlash™** on the sill and at least 2" min on the face of the wall substrate. Be sure all inside corners are filled and integrated with the **StraightFlash™**. A corner trowel may be used to smooth outside corners.

Penetrations & Counterflashing

Seal around all penetrations using **Tyvek® Fluid Applied Flashing and Joint Compound+.** Apply **Tyvek® Fluid Applied Flashing & Joint Compound+** a minimum of 2 inches onto each sheathing face and a minimum of 2 inches on the primary flashing substrate.

Dissimilar Substrates

Treat all non-moving transition joints to beams, columns, and dissimilar materials (up to 1/4") by applying a 2" wide, 60 mil thick coat of **Tyvek® Fluid Applied Flashing and Joint Compound+** across the joint. Grouted joints between similar materials do not need to be treated. Transition joints up to 1/2" should be reinforced with fiberglass mesh tape.

Inspection

4. *Inspect work shortly after **Tyvek® Fluid Applied Flashing and Joint Compound+** is applied.*

Thickness Check

Use a wet mil thickness gauge to ensure proper installation thickness. Use a trowel or short bristle brush to even out the **Tyvek® Fluid Applied Flashing and Joint Compound+** application thickness. If product is consistently below minimum thickness, apply more material.

Missed Spots & Fastener Washer Coverage

Check for missed spots along board joints, penetrations and rough openings. Inspect that fasteners and brick ties, where required to be covered, are completely covered with **Tyvek® Fluid Applied Flashing and Joint Compound+**. Touch up or add more material using a trowel or brush if needed.

Curing

5. *Allow product to cure.*

Tyvek® Fluid Applied Flashing and Joint Compound+ is a moisture cure product and will skin over in 1-2 hours. This time can be extended at colder temperatures. **Tyvek® Fluid Applied Flashing and Joint Compound+** only needs to cure for 15 minutes before rain exposure.

6. *Inspect work after **Tyvek® Fluid Applied Flashing and Joint Compound+** is cured.*

- **Tyvek® Fluid Applied Flashing and Joint Compound+** contains 98% solids. At 25 wet mils, Tyvek® Fluid Applied Flashing and Joint Compound+ will cure to a dry mil thickness of approximately 25 mils.
- Again, check for missed spots and areas where the product may have been applied too thin. While very rare, note any pinholes found in the **Tyvek® Fluid Applied Flashing and Joint Compound+**. If any of these items are found, repair by applying more **Tyvek® Fluid Applied Flashing and Joint Compound+**.

Clean-up

7. *Uncured* **Tyvek® Fluid Applied Flashing and Joint Compound+** can be cleaned from hands, tools, and equipment by using a citrus based cleaner or mineral spirits. Cured **Tyvek® Fluid Applied Flashing and Joint Compound+** can be removed by soaking in citrus based cleaners or using a gel-based paint stripper. Note that **Tyvek® Fluid Applied Flashing and Joint Compound+** will adhere well to clothing, work boots and gloves.

Exposure & Storage Information

8. *DuPont™ Tyvek® Fluid Applied Flashing and Joint+ should be covered with the facade within 9 months (270 days) to limit UV exposure.*

   - **Tyvek® Fluid Applied Flashing and Joint Compound+** should be stored in a clean, dry environment, 50°- 80°F, (10°- 27°C). Storage of the products in temperatures outside that range for short periods of time is acceptable.
   - The shelf life is 12 months for an unopened container from the date of manufacture. Reference the "Use By" date printed on the container. Store opened containers with a plastic protective liner. Before reusing a previously opened container, first remove any cured material that may have formed at the top placed directly over top of the remaining product, and apply bucket lid.

For more information about DuPont Performance Building Solutions, please call 1-833-338-7668 or visit us at building.dupont.com

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