Technical Bulletin #3.9

QUICKFLASH membrane

DESCRIPTION

- ADEX QuickFlash is a waterproofing, adhesive and detailing compound for air barrier applications that combines the best characteristics of silicone and polyurethane. This single-component, Silyl-Terminated-Polymer (STP) is easy to gun, spread-and-tool to produce a highly durable, seamless, elastomeric flashing membrane. Allows for same day installation of windows, doors and other wall assembly, waterproofing or air barrier components.
- Suitable for all climates, QuickFlash bonds directly to damp or dry surfaces and cures under a variety of weather conditions. It dramatically reduces surface preparation time by eliminating the need for reinforcing tapes at sheathing joints, inside and outside corners. It simplifies the process of producing watertight details in new or existing construction.

USE

- Use QuickFlash as part of a continuous, building-wide Hydroflex air barrier system, or to complement conventional waterproofing or air barrier components.

PACKAGING

- 0.86L (29 oz) tubes

COVERAGE

- Up • 2 to 2.6 m2 (22 to 28 sq.ft.) per 29-oz tube applied at 12–15 mils

SURFACE PREPARATION

- To ensure best results, apply to clean surfaces free of contaminants. Chemical residues, surface oxidation, surface coatings or films may adversely affect adhesion. Pressure-treated wood and other contaminated surfaces should be cleaned with an Isopropyl Alcohol wipe and allowed to flash-off before application of QuickFlash.
- Concrete must be in place 3-7 days and free of any curing compounds or form release agents before permeable QuickFlash is applied. Mortar joints in CMU construction must have a minimum 3 day cure before being treated with QuickFlash.
- If considering use on insulated concrete forms, the preferred method for cleaning is with water and low-pressure cleaning.
- Protect people, vehicles, property, plants and all other surfaces not intended to receive QuickFlash.
- Remove and replace damaged sheathing.
- Ensure positive drainage at all rough openings.
- Roofing systems should be capped and sealed or top of walls protected from water intrusion both before and after air barrier system installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

APPLICATION

- Apply QuickFlash using a professional caulking gun and spread with a DRY joint knife, trowel, or spatula.
- Do not use soapy water or solvent to help with the tooling process or to slick the surface profile.
- Detailing Fastener Heads and Around Penetrations

  1. Apply a bead of QuickFlash to all sheathing joints, seams and cracks and strike smooth with a DRY tool. Joint widths up to 1/4 inch may be treated with QuickFlash without backer rod. Use a DRY joint knife, trowel or spatula to tool and spread the product beyond the sheathing seams on each side to a thickness of 12–15 mils.
  2. Spot fastener heads and strike with a DRY tool.
  3. Allow to skin before installing other waterproofing or air barrier components.

- Detailing & Waterproofing Rough Openings (Window and Door Penetrations)

  1. Apply a bead of QuickFlash in each corner of the rough opening and at the sheathing-to-stud transition, then strike smooth with a DRY tool. Joint widths up to 1/4 inch may be treated with QuickFlash and no backer rod.
  2. Apply QuickFlash over the exterior

inside framing of the rough opening and onto the exterior vertical wall surface 10–15 cm (4–6 inches) to create a 12–15 mil thick monolithic, pinhole-free flashing surface. NOTE: When using with existing sheet weather resistive barriers, extend QuickFlash 10–25 cm (8–10 inches) over the face of the exterior wall to ensure positive drainage.

3. Allow treated surfaces to skin before installing windows, doors and other wall assembly, components.
4. Proceed to application of primary air and water barrier coating.

- Flashing Transitions

1. Apply a minimum 3/8-inch bead to the top edge of flashing leg and strike with a DRY joint knife or caulking tool.
2. Apply and spread additional QuickFlash to create a monolithic "cap flash" flashing membrane that extends 51 mm (2 inches) up the vertical face of the exterior wall and down over the fastener heads of the termination bar. This "liquid termination bar" helps secure the flashing and ensures positive drainage from the wall surface to the flashing.

Form
viscous paste, mild odor, red color
Total solids: 99%
99%
VOC content
Pass.
Flash Point
>93° C (>200° F)

Hardness
Shore A
35-45
Tensile Strenght
ASTM E 96-95: Requirement
>150 psi
Elongation at break
ASTM D 412
>350%
Vapour Permeability
ASTM E 96-95: Requirement
1201 ng/Pa·s· m^2 (21 perm)
Air Leakage
ASTM E 2357 : Requirement : ≤ 0.2 L / s·m2 at 75 Pa
Pass: 0.0105 L / s·m2 at 75 Pa

Properties
Test Method
Result

CLEAN UP

- Clean tools and equipment with mineral spirits or similar solvent immediately after use. Follow all safety precautions. Remove cured QuickFlash mechanically using a sharp-edged tool.

CURING TIME

- At 21°C (70°F) and 50% relative humidity, product skins within 30–60 minutes and dries in 4–6 hours.
- QuickFlash is moisture curing. Low temperatures and low relative humidity slow dry time. High temperatures and high relative humidity accelerates dry time.

LIMITATIONS

- Not for use as a structural sealant.
- Not for use in place of appropriate through-wall flashing.
- Not for use below grade or in locations designed to be continuously immersed in water.

SURFACE AND AIR TEMPERATURE

- Surface and ambient temperatures between 0°C (32°F) and 43°C (110°F) are required for proper curing and drying of material to take place.
- Hot Weather Conditions/Precautions: When air or surface temperatures exceed 35°C (95°F), apply product to the shady side of structure before daytime air and surface temperatures reach their peak. Hot surfaces may be cooled with a mist of fresh water. Keep containers closed and out of direct sunlight when not in use. Do not apply when substrate temperature exceeds 43°C (110°F).
- Cold Weather Conditions/Precautions: Product may be applied to frost-free substrates at temperatures below 0°C (32°F). Product will not begin to cure until temperatures reach 0°C (32°F) and remain above freezing. Keeping material stored in a heated environment prior to use and misting applied material with warm, fresh water will help in these conditions.
- Low Humidity Conditions/Precautions: The process of curing may take longer when lower humidity levels occur. A light misting of fresh water over the treated surface will accelerate curing if necessary.
- Though QuickFlash may be applied to damp surfaces and tolerates rain immediately after application, do not apply to surfaces with standing water or frost.

STORAGE

- Store in a cool, dry place. Keep container tightly closed when not dispensing. Do not open container until preparation work has been completed. Do not alter or mix with other chemicals. When stored at or below 27°C (80°F) QuickFlash has a shelf life of 12 months after the date of manufacture. This shelf life assumes upright storage of factory-sealed containers. Do not double stack pallets. Dispose of unused product and container in accordance with local, provincial and federal regulations.

SAFETY INFORMATION

- Always read full label and SDS for precautionary instructions before use. Use appropriate safety equipment and job site controls during application and handling.

24-Hour Emergency Information:
CANUTEC at 613-996-6666

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