

# SmartFlash® ONE

One-Part Liquid Applied Flashing & Repair Resin

Seamless, durable protection for steep or low-slope roof construction details and repairs



**CertainTeed Corporation**

ROOFING • SIDING • TRIM • DECKING • RAILING • FENCE • GYPSUM • CEILINGS • INSULATION

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**CertainTeed**  
SAINT-GOBAIN



## Flashing Details — Problem

Traditional penetration flashings fail without routine inspection and maintenance.

Why?

- Improper installation or incompatible sealants
- High levels of roof vibration or structural movement
- Failure to inspect and refill sealant
- Failure to inspect and correct corroded metal

*Penetration pockets are no longer a recommended flashing method by the National Roofing Contractors Association.*



## SmartFlash ONE:

Maintenance-free leak protection, up to 20 years.

- **Self-Terminating:** No additional components
- **Versatile:** Conformation to irregular penetration shapes
- **Efficient:** One-part resin, no primer, no roof-top measuring or mixing, no limitation to working time, no waste – unused resin can be stored and used on a future project



## Repairs — Problem

Mastic-based repairs on steep or low-slope roofs are a temporary patch.

Permanent repairs are often inefficient, requiring multiple trips to the job site and procurement of custom materials - squeezing contractor margins.



## SmartFlash ONE:

Cost-effective, quick, permanent repairs.

- **Versatile:** Repair cracks in asphalt membrane/shingle or damaged/corroded flashings
- **Visually Appealing:** Broadcast granules into wet resin to match existing roof surfacing if desired
- **Efficient:** Resin and reinforcement are easily stored on repair trucks for use when needed





SmartFlash ONE is available in a Flash Pack, 1G or 5G pails. A Flash Pack includes all materials and tools required to flash 25 square feet.

Application Instructions

For use on bituminous low-slope roof systems or asphalt shingles; not for use with single-ply membranes such as TPO, PVC or EPDM.

- Wear protective latex gloves during application. Resin adheres to skin and is difficult to remove.
- Apply when the ambient temperature is 40°F and rising
- Apply with a brush, roller or squeegee

- 1

Prepare substrate to ensure the surface is free of debris, moisture or contaminants
- 2

Apply resin at a rate of two (2) gallons per 100 sq ft or approximately 30 wet mils thick
- 3

Immediately embed polyester reinforcement into wet resin. NOTE: For repair applications, center polyester over crack and exceeding the crack or hole by 3" on all sides.
- 4

Saturate polyester reinforcement with 30 wet mils of resin that the polyester reinforcement is completely embedded and covered
- 5

Allow to dry
- 6

Apply a finish application of 30 wet mils of resin
- 7

If granular aesthetic is desired, broadcast granules into the finish coat before the surface forms a skin

NOTE: Failure to apply the finish application of resin voids warranty and may allow water incursion.



Anchor, Base Ply and Cap Sheet

Mechanically attach or fully adhere (self-adhered, torch, cold process or hot asphalt) to base of penetration. Proper attachment is defined by specific system, product selection and deck type.

Pipe

If pipe is manufactured with PVC, abrade the surface with sand paper prior to resin application. This is also recommended for surfaces with rust or paint. All other surface should be clean and free of moisture, oil or debris.

Tape (Recommended)

Tape off desired edges for clean detail aesthetic.

Polyester Reinforcement Preparation (Recommended)

Prepare reinforcements prior to applying any resin.

FINGER FLASHINGS: For pipe or round penetrations, it is necessary to cut "fingers" into one side of the polyester to allow the material to radiate onto the field of the roof without creases.

FLASHING STRIPS: Additionally, prepare two 6" strips cut to 10" in length with half-circles removed to allow for the strips to overlap when placed on opposite sides of the pipe.

First Waterproofing Coat

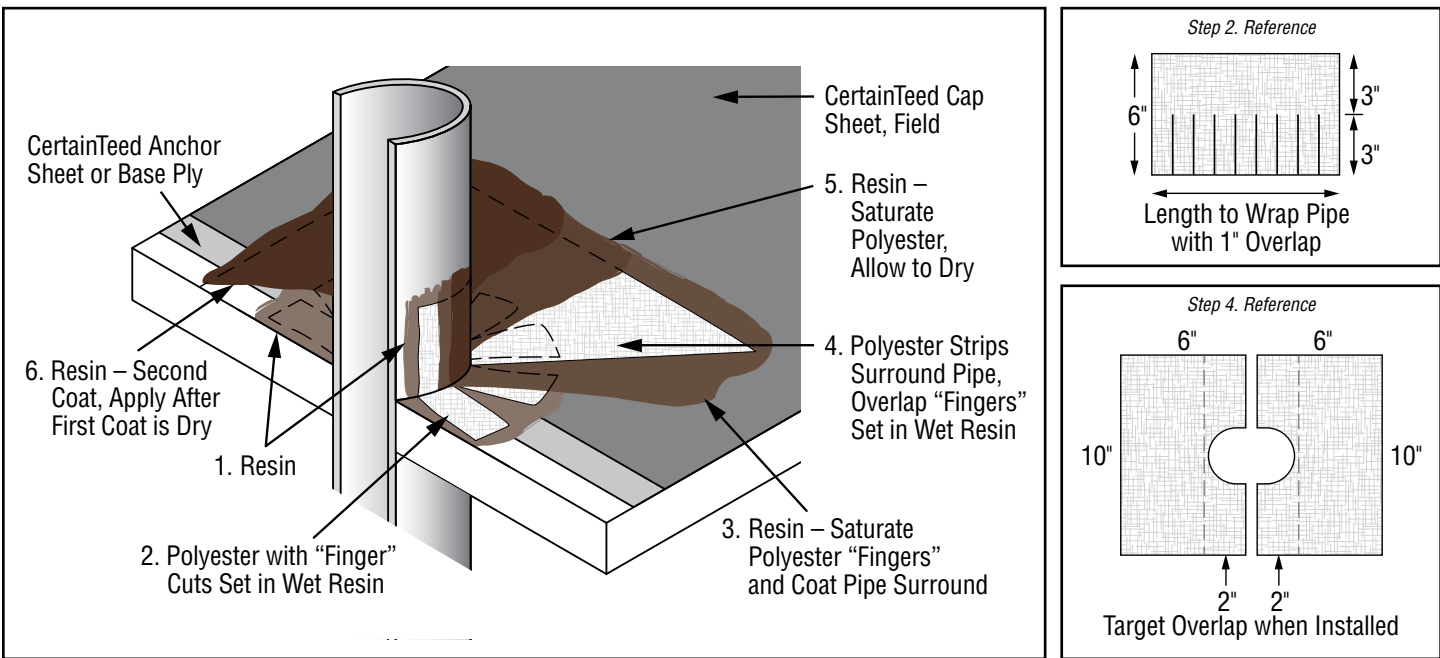
Using a paint brush, roller or trowel for resin application. Apply approximately 30 mils of wet resin to the Cap Sheet approximately 4" (100 mm) horizontally surrounding the penetration and 4" vertically up the penetration. Do not spread more than 10 ft (3 m) of resin at once. Immediately lightly press "finger" reinforcement into wet resin onto field and wrapping pipe; saturate and coat field and vertical reinforcement with resin. Apply approximately 30 mils of wet resin to Cap Sheet out to pre-defined detail edges (tape), approximately 10" x 10". Immediately lightly press field reinforcement strips into wet resin. Reinforcement strips must overlap each other by a minimum of 2" (50 mm); saturate and coat reinforcement strips, including overlapped surfaces, with resin. Allow to dry 2-3 hours (assumes 70°F or 20°C).

Second Waterproofing Coat

Apply approximately 30 mils of wet resin to entire surface covered by first coat.

Granules (Optional)

If desired, broadcast granules into the second waterproofing coat before it forms a skin.



NOT DRAWN TO SCALE

For complete SmartFlash ONE details, please visit [certainteed.com](http://certainteed.com) or review the Commercial Roof Systems Specifications manual.

Note: The shades of color representing the Resin is to illustrate difference in coats only. The actual Resin is one color.

# Common Liquid Applied Flashing Details

## CTL-02 Base Flashing, Liquid

### Anchor, Base Ply and Cap Sheet

Mechanically attach or fully adhere (self-adhered, torch, cold process or hot asphalt) to edge of parapet wall. Proper attachment is defined by specific system, product selection and deck type. Cant strip not required.

### Tape (Recommended)

Tape off desired edges for clean detail aesthetic.

### Polyester Reinforcement Preparation (Recommended)

Prepare reinforcements prior to applying any resin. Base Flashing requires 6" flashing strips cut to manageable lengths equal to the linear feet of base flashing with 2" (50 mm) strip overlaps anywhere an overlap occurs. NOTE: To accommodate inside or outside corners, make a 3" long cut halfway through the width of the strip end.

OUTSIDE CORNERS: The cut allows the strip to round the corner and extend onto the field; a second strip cut the same way shall overlap the first strip.

INSIDE CORNERS: The cut allows the strip to round the corner and overlap itself on the vertical surface; a second strip cut the same way shall overlap the first strip.

### First Waterproofing Coat

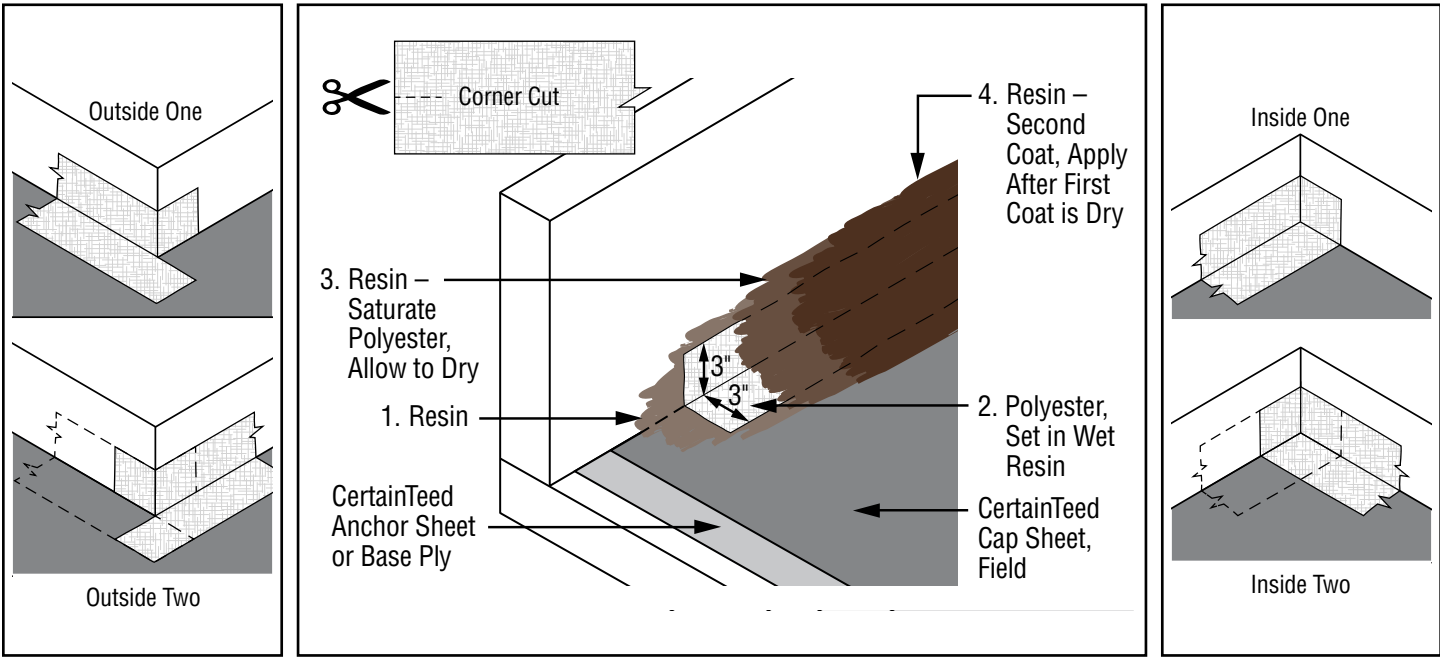
Using a paint brush, roller or trowel for resin application. Apply approximately 30 mils of wet resin to the Cap Sheet approximately 4" (100 mm) horizontally onto the field and 4" vertically up the parapet wall. Do not spread more than 10 ft (3 m) of resin at once. Immediately lightly press reinforcement into wet resin; saturate and coat reinforcement with resin. Allow to dry 2-3 hours (assumes 70°F or 20°C).

### Second Waterproofing Coat

Apply approximately 30 mils of wet resin to entire surface covered by first coat.

### Granules (Optional)

If desired, broadcast granules into the second waterproofing coat before it forms a skin.



NOT DRAWN TO SCALE

# Common Liquid Applied Flashing Details

## CTL-05 Drain Flashing, Liquid

### Anchor, Base Ply and Cap Sheet

Mechanically attach or fully adhere (self-adhered, torch, cold process or hot asphalt) to edge of drain bowl. Proper attachment is defined by specific system, product selection and deck type.

### Tape (Recommended)

Tape off desired edges for clean detail aesthetic.

### Polyester Reinforcement Preparation (Recommended)

Prepare reinforcements prior to applying any resin.

FINGER FLASHING: For drains, it is necessary to cut "fingers" into the sides of the polyester to allow the material to radiate onto the field of the roof and into the drain bowl without creases.

FLASHING STRIPS: Prepare four 6" strips cut to approximately 12" in length with oval centers removed to overlap the "finger" flashing and surround the drain.

### First Waterproofing Coat

Using a paint brush, roller or trowel for resin application. Apply approximately 30 mils of wet resin to the Cap Sheet

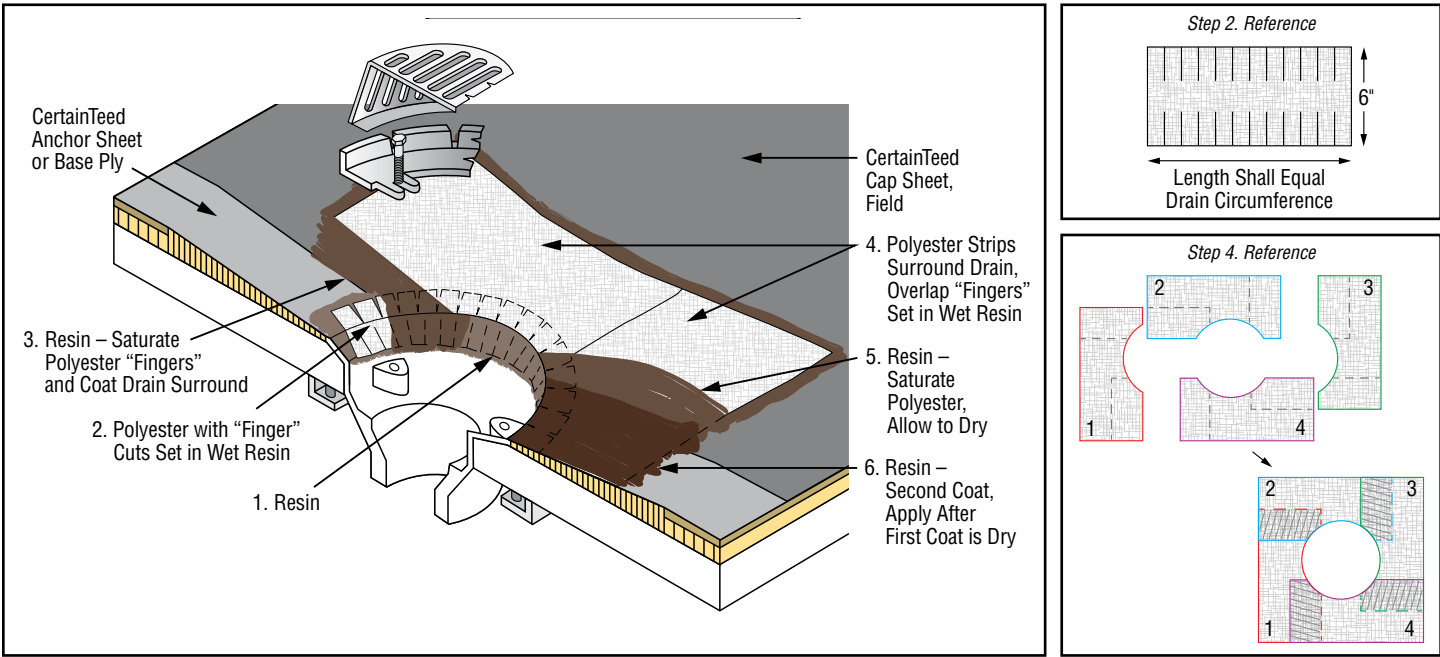
approximately 4" (100 mm) horizontally surrounding the drain and 4" into the bowl. Do not spread more than 10 ft (3 m) of resin at once. Immediately lightly press "finger" reinforcement into wet resin; saturate and coat reinforcement with resin. Apply approximately 30 mils of wet resin to Cap Sheet out to pre-defined detail edges (tape), approximately 12" x 12". Immediately lightly press field reinforcement strips into wet resin. Reinforcement strips shall completely cover finger flashing and overlap each other by a minimum of 2" (50 mm); saturate and coat reinforcement strips, including overlapped surfaces, with resin. Allow to dry 2-3 hours (assumes 70°F or 20°C).

### Second Waterproofing Coat

Apply approximately 30 mils of wet resin to entire surface covered by first coat.

### Granules (Optional)

If desired, broadcast granules into the second waterproofing coat before it forms a skin.



NOT DRAWN TO SCALE

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