



NOBODY COVERS
YOU BETTER™



ASPHALT PRODUCTS 2010

UltraFlash™

Liquid Flashing System

Firestone
BUILDING PRODUCTS



UltraFlash Liquid Flashing



What is it?

- Firestone **UltraFlash** Liquid Flashing is a 2-part Urethane liquid rubber flashing and coating that can be easily applied to the most difficult of rooftop details, creating a durable watertight seal.
- **UltraFlash** meets the challenges of creating a watertight seal and is suitable for use with both SBS and BUR systems. With over 30 years of use in exterior applications, from waterproofing to roofing.
- **UltraFlash** is acceptable as part of a Firestone Red Shield Warranty

UltraFlash[™]

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Firestone
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NOBODY COVERS YOU BETTER™ Products



1 gallon Can



5 gallon Pails



UltraFlash Scrim



UltraFlash Primer



Mixing Jig

Dual Cartridges





Features & Benefits



- Easy installation
- 2 Component, cures within 1 hour
- Particularly suited to detail work
- Low VOC, Low Odor
- Cost-effective.
- 30 years of proven roofing history
- Excellent adhesion to many substrates
 - Bonds To: Asphalt , BUR Felts, SBS modified bitumen, Concrete, Wood, Steel, Stainless steel, Galvanized steel, Aluminum, Copper, Zinc, Lead, Glass, Acrylic glass, PVC mold plastic, PVC single-ply membrane, UP (unsaturated polyester), EP (epoxy) • PU (polyurethane) • PVC • PMMA (polymethyl methacrylate)
- ***NON-POROUS SURFACE REQUIRE USE OF **UltraFlash** Primer!!!***
- UV and chemical resistant
- One Color (Black), but granules can be added or coated with AcryliTop





Competitive Products



1. Moisture Cured Urethane
 - Liquid Plastics (Sika/Sarnafil)
 - Soprema ALSAN Flashing

2. Two-Part Urethane*
 - JM MBR Flashing Cement (Permaflash)

3. Polymethyl methacrylate (PMMA) with a catalyst
 - Siplast Parapro 123 Flashing

4. Two-part Epoxy
 - Kemperol (Kemper Systems Inc.)

*VERY Similar Product





AVAILABLE INFORMATION



- TIS
- MSDS
- Sell Sheet, 2011 Asphalt Accessories Brochure
- Samples
- Application Guide & Details
- This DVD and PowerPoint

UltraFlash™





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Literature



Firestone UltraFlash™ Liquid Flashing



UltraFlash™

Firestone Solution for Difficult Details

Firestone UltraFlash Liquid Flashing is a 2-part urethane liquid rubber flashing and coating that can be easily applied to the most difficult of rooftop details, creating a durable watertight seal. UltraFlash meets the challenges of creating a watertight seal and is suitable for use with both SBS and BUR systems.

The Challenge – Keeping It Dry

Tight corners, HVAC equipment, pipes, wires and other rooftop projections make it difficult to flash and form a good waterproofing seal. And cutting and piecing together material increases installation time and creates more vulnerable seams.

Proven Reliability

UltraFlash utilizes a specific formulation of elastomeric polymers that has been used in exterior apps for more than 30 years on thousands of rooftop applications. UltraFlash is acceptable as part of a Firestone Red Shield® Warranty.



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TECHNICAL INFORMATION SHEET
1311
02/29/10



Firestone BUILDING PRODUCTS
UltraFlash
Liquid Flashing

Firestone Item Numbers:
4.5 gal Kit:
 Part A – 4.5 gal (5-gal pail): W70UFLF05A
 Part B Activator – 0.5 gal pail: W70UFLF05B

0.8 gal Kit:
 Part A – 0.8 gal (1-gal can): W70UFLF01A
 Part B Activator – 11 fl oz bottle: W70UFLF01B

DESCRIPTION:
 Firestone UltraFlash Liquid Flashing is a tough liquid applied urethane elastomer blend of Part A and Part B Activator to form an impervious, seamless, monolithic membrane. The material cures chemically at ambient temperature to form a tack free polyurethane elastomer within approximately four hours.

UltraFlash Liquid Flashing is a colored liquid component which when blended with UltraFlash Primer forms a 2-part urethane liquid rubber flashing and coating that can be easily applied to the most difficult of rooftop details, creating a durable watertight seal. UltraFlash meets the challenges of creating a watertight seal and is suitable for use with both SBS and BUR systems.

UltraFlash Liquid Flashing is Firestone SBS modified bitum Application is recommended flashing walls and curbs, penetration pockets with pipe shaped penetrations.

UltraFlash Liquid Flashing ad glass, wood, and most surface UltraFlash Primer on all nonp metal surfaces.

METHOD OF APPLICATION

- Substrates must be clean and free of sharp object grease, and other contaminants.
- All equipment and substrate ABSOLUTELY DRY.
- Remove existing flashing, mastic, etc.).
- Apply when ambient and 45 °F (7.2 °C) or above.
- DO NOT THIN. DO NO

UltraFlash Liquid Flashing packaged in dual cartridges is dispensed using a manual, air, or battery powered dispenser gun. The material mixes instantly as it is moved through the static mixer. The cartridges are ideal for small flashing applications and repairs.

UltraFlash Liquid Flashing is intended for use with Firestone SBS modified bitumen and BUR roofing systems. Application is recommended for vertical surfaces such as flashing walls and curbs, penetrations, roof drains, and penetration pockets with pipe cladders and unusually shaped penetrations.


UltraFlash Liquid Flashing adheres to concrete, steel, glass, and wood. For best adhesion, use UltraFlash Primer on all nonporous surfaces including all metal surfaces.

METHOD OF APPLICATION:

- Substrates must be clean, dry, relatively smooth, and free of sharp objects, foreign materials, oil, grease, and other contaminants.
- All equipment and substrates must be ABSOLUTELY DRY.
- All flashing must be completed using Firestone SBS Membrane and any additional membrane layers as required by Firestone Details.
- Remove existing flashings (i.e., metal, bituminous, mastic, etc.).
- Apply when ambient and substrate temperatures are 45 °F (7.2 °C) or above.
- When opening a new cartridge always point the tip up and extrude material until both the activator and premix have mixed in the mixing tube.
- Cartridges are mixed in the mixing tube where they receive proper and thorough mixing as long as the cartridge is started properly, pointing up to prevent the activator from running out of the mix tube.

6 - Do not mix in metal containers.

TECHNICAL INFORMATION SHEET
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02/29/10



Firestone BUILDING PRODUCTS
UltraFlash
Liquid Flashing
Dual Cartridges

Firestone Item Numbers: W70UFLF001
Requires Static Mixer Sold Separately

DESCRIPTION:
 Firestone UltraFlash Liquid Flashing is a viscous black liquid component blend of Part A and Part B Activator that forms an impervious, seamless, monolithic membrane. The material cures chemically at ambient temperature to form a tack free polyurethane elastomer within approximately four hours.

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8 - Flash penetrations in accordance with the appropriate Firestone Details. Apply UltraFlash Liquid Flashing with a paint brush, or trowel.

9 - The flashing seal must be directly to the penetration except for hot stacks.

10 - For additional information including mixing directions, refer to Firestone UltraFlash Liquid Flashing Application Guide, www.firestonebpco.com.

CLEAN-UP:
 Use mineral spirits for clean-up of uncured material.


COVERAGE RATE:
 Approximately 4.5 ft² (0.42 m²) per kit

PHYSICAL PROPERTIES:

Property	Typical Performance
Base:	Polyurethane
Mix:	Mixed: Black
Color:	Part A: Black
	Part B: Tan
Solids:	89%
By volume:	
Specific Gravity:	Part A: 1.00
	Part B: 1.21
Water Vapor Transmission:	ESR 1.03 perms
Mix Ratio:	1 can of Part B to 1 can of Part A
Pot Life:	30 minutes (max) at 72 °F (22.22 °C)
V.O.C. Content:	88 g/L (0.74 lb/gal)

S723-RFS-110

TECHNICAL INFORMATION SHEET
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02/29/10



Firestone BUILDING PRODUCTS
UltraFlash
Fabric

Firestone Item Numbers:
 6" x 100' W70UF06100
 12" x 100' W70UF12100
 24" x 100' W70UF24100
 40" x 100' W70UF40100

DESCRIPTION:
 Firestone UltraFlash Fabric is a stitchbonded polyester scrim that provides a sturdy combination of burst strength and toughness for roofing applications. This flexible polyester allows elongation up to 50%, easily supporting against thermal stresses and movements.

UltraFlash Fabric, which has superior weathering resistance, is designed for the UltraFlash Liquid Flashing used with SBS modified bituminous roofing systems. When UltraFlash Liquid Flashing is reinforced with the polyester fabric, an exceptionally durable elastomeric seal is formed. This seal bonds strongly with a variety of substrates and features extremely low permeability.

UltraFlash Fabric is polypropylene or so fabric will also conta seam metal roof de

PHYSICAL PROPERTIES:


Property	Test Method	Typical Value
Tensile Strength:	ASTM D412	600 psi (4.1 MPa)
Elongation:	ASTM E 84	> 500%
Permeability to Water Vapor:	ASTM E 96	0.03 perms
Working Time:	100 ml (2.5 mm) sheet @ 75 °F (25 °C)	30 minutes
Rangeoff After:	@ 75 °F (25 °C)	4 hours
Hardness:	ASTM D 2402	60 Shore A
Crack Breaking:	@ 77 °F (25 °C)	1/8" (3 mm)
Softening Point, Ring and Ball:	ASTM D 36	@ 275 °F (135 °C)

METHOD OF APPL

- Follow installa Guide, www.fir
- Using a paintb penetration to b from the field of out onto the field.
- Using a precut score into the U penetration and (15.4 mm up to 100 mm) in the fl.
- Embed the score UltraFlash comp not visible.
- Cool the area a the penetration where the score

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TECHNICAL INFORMATION SHEET
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Firestone Building Products Company
Material Safety Data Sheet

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SECTION 1: PRODUCT IDENTIFICATION				
Product Name:	UltraFlash Liquid Flashing – Part A			
Chemical Name / Synonym:	None			
Chemical Family:	Mixture			
24-Hour Emergency Phone:	(800) 424-6300 CHEMTREC			
Manufacturer's Name:	Firestone Building Products Company			
Manufacturer's Address:	250 West 60 th Street, Indianapolis, IN 46200			
HMHA Hazard Rating:	Health 1, Flammability 2, Reactivity D			
HMSD Hazard Rating:	Health 1, Flammability 2, Reactivity D			
SECTION 2: CHEMICAL COMPOSITION				
Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Asphalt (Petroleum)	Bitumen	8052-42-4	20-80	TLV 0.5 mg/m ³ (max) (respirable)
Stoddard Solvent	Mineral Spirits	8052-41-3	5-30	PEL 500 ppm TLV 100 ppm
Amine Compounds	None	TSCA Registered	510	None Established
Aromatic Petroleum Distillates	Petroleum Naphtha	64742-95-6	≤2	None Established
SECTION 3: HAZARD IDENTIFICATION				
Primary Route of Exposure:	Inhalation			
Signs and Symptoms of Exposure:	Eye contact may cause moderate eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. May cause unconsciousness if exposure is excessive. Standard solvent L.C ₅₀ : 5000 mg/m ³ /4 hrs. rat; stoddard solvent LD ₅₀ : >5 g/kg. rat; petroleum naphtha L.C ₅₀ : 8400 mg/kg. rat; Pre-existing lung, skin, eye, kidney, or nervous system disorders may be aggravated by exposure to this material. May cause kidney damage based upon animal studies.			
Medical Conditions Aggravated by Exposure:	None			
Chronic Effects:	None			





Applications



- Inside/Outside corners
 - Wall flashings
 - Various Penetrations
 - Angle Iron
 - I-Beams
 - Scuppers
 - No lead drains
 - Edge Metal
- AN ENTIRE ROOF!!!!