

Product Information Guide

COMMERCIAL ROOFING SYSTEMS



Email: sales@usply.com
Email: technical@usply.com



Website: www.usply.com



Local: (817) 413-0103
Fax: (817) 413-8221



Corporate Headquarters:
P.O. Box 1182, Bridgeport, Texas 76426



U.S. PLY, INC.

FROM: Danny Adair – President & CEO, U.S. Ply, Inc.

Dear Recipient:

We are pleased to present you with our new Product Guide.

About U.S. Ply...

U.S. Ply, Inc. (formerly “U.S. Single Ply”) was established in 1985, as the modified bitumen manufacturing operation for Texas Refinery Corporation (TRC) headquartered in Fort Worth, Texas. Since the beginning in 1985, located just south of the historic Fort Worth Stockyards, it grew to one of the largest private label manufacturers of modified bitumen roofing materials and is one of the oldest modified bitumen manufacturers still producing today. The Manufacturing site moved from the just south of the historic Fort Worth Stockyards to Bridgeport, Texas in 2015, and built a brand new state of the art manufacturing line. U.S. Ply manufactures and markets a FULL LINE of commercial APP & SBS modified bitumen, built-up roofing, adhesives, and fasteners for a wide range of low sloped roofing applications.

U.S. Ply Mission Statement...

U.S. PLY is committed to providing our customers with superior roofing materials at a fair price. We are a family of business professionals dedicated to backing our quality materials with overwhelming customer service. We strive to be the best!

As former Founder, President and CEO of the first and largest modified bitumen manufacturer in the United States, I know that the need for quality, reliable, and durable roofing products has remained unchanged. And in 2004, I was pleased to acquire U.S. Ply, Inc. and continue the 25+ year tradition of producing premium roofing products. For over 30 years, I have been affiliated with the roofing industry, and I have seen many changes occur in that time. But the one thing that remains unchanged and that I will always believe in, is that the quality roofing products we make must be backed by a team of professionals dedicated to the customer and their future.

A Family of Business Professionals...

U.S. Ply is staffed with some of the most highly experienced employees in our industry. Our Senior Management Team (Sales, Manufacturing, Technical & QC) has more than 200 years of combined industry experience. Also, we have aligned ourselves with quality contractors that want to share our vision to help ensure that the end customers (the building owners) receive the quality that they deserve.

Quality Products, Innovative Solutions...

Throughout the U.S. Ply Specification Information Drive, you will find a wide range of roofing systems that are based on U.S. Ply’s 25+ years of manufacturing success. We have produced millions of square feet of roofing materials and it has proven to stand up in the most extreme weather conditions – and that is a true test of time.

Backed By The Best Service In The Industry!

Contractors, architects, engineers, distributors, property managers and building owners are invited to contact our Technical Service Team at (817) 413-0103 and speak to a knowledgeable roofing representative regarding specifications, material application, code approvals, and product information.

U.S. Ply also has a user-friendly website that includes downloads of U.S. Ply specifications, roof drawings, technical data and sales information. Visit our website at www.usply.com. I trust that you will find this brochure useful.

Sincerely,



Danny Adair
President/CEO



Corporate Headquarters: P.O. Box 163980 Fort Worth, Texas 76161
Corporate: (817) 413-0103 • **Email:** sales@usply.com
Technical: (817) 413-0103 • **Email:** technical@usply.com
Phone: (817) 413-0103 • **Fax:** (817) 413-8221
Website: www.usply.com

PROFESSIONAL GRADE ROOFING PRODUCTS

APP MODIFIED BITUMEN PRO GRADE

DURAWELD® APP PREMIUM - Application: Torch Welding						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
DuraWeld® 4S APP	3.7 mm	Polyester	Base/Interply/Cap	1 Square	88 lb, 40 kg	D6222 Type I, S
DuraWeld® 4M APP	4.1 mm	Polyester	Cap	1 Square	105 lb, 48 kg	D6222 Type I, G
DuraWeld® 4MFR APP	4.1 mm	Polyester	Fire Rated Cap	1 Square	105 lb, 48 kg	D6222 Type I, G

DuraWeld® APP modified bitumen membranes are manufactured from exclusive formulas using the highest quality materials available in the market today and have been the principle waterproofing components in U.S. Ply roof systems for over 20 years.

DuraWeld® APP modified bitumen membranes are FM Approved, FBC Approved, UL Classified and listed with Texas Windstorm (TDI) Insurance. DuraWeld® 4M APP and 4MFR APP are available in ULTRA WHITE reflective granule option. Due to granule density, the Ultra White rolls are five pounds (5 lbs.) less than the standard rolls. CRRC Rated, initial SRI = 104, aged SRI = 65, initial reflectivity = 0.83, aged reflectivity = .055, initial emissivity = 0.90, aged emissivity = 0.91.

SBS MODIFIED BITUMEN PRO GRADE

DURAFLEX® SBS BASE/PLY SHEETS - Application: Mechanical, Mop, Adhesive						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
RapidGRIP® Readi-Base SA	1.4 mm	Fiberglass	Base	2 Squares	75 lb, 34 kg	D4601 Type II
DuraFlex® 60 SBS Base	2.3 mm	Fiberglass	Base/Interply	1.5 Squares	88 lb, 40 kg	D6163 Type I, S
DuraFlex® G4S SBS	3.0 mm	Fiberglass	Base/Interply	1 Square	88 lb, 40 kg	D6163 Type I, S
DuraFlex® SBS PolyBase	2.3 mm	Polyester	Base/Interply	1.5 Squares	88 lb, 40 kg	D6164 Type I, S
DuraFlex® 190S SBS	3.0 mm	Polyester	Base/Interply	1 Square	88 lb, 40 kg	D6164 Type I, S
DuraFlex® 250S SBS	3.0 mm	HD Polyester	Base/Interply	1 Square	88 lb, 40 kg	D6164 Type II, S
DURAFLEX® SBS CAP SHEETS - Application: Mop/Adhesive						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
DuraFlex® G4M SBS	3.8 mm	Fiberglass	Cap	1 Square	105 lb, 48 kg	D6163 Type I, G
DuraFlex® G4FR SBS	3.8 mm	Fiberglass	Fire Rated Cap	1 Square	105 lb, 48 kg	D6163 Type I, G
DuraFlex® 190 SBS	3.8 mm	Polyester	Cap	1 Square	105 lb, 48 kg	D6164 Type I, G
DuraFlex® 190FR SBS	3.8 mm	Polyester	Fire Rated Cap	1 Square	105 lb, 48 kg	D6164 Type I, G
DuraFlex® 250FR SBS	3.8 mm	HD Polyester	Fire Rated Cap	1 Square	105 lb, 48 kg	D6164 Type II, G

DuraFlex® modified bitumen membranes are manufactured from exclusive formulas using the highest quality materials available in the market today and are one of the principle waterproofing components in U.S. Ply roof systems. U.S. Ply has engineered and developed DuraFlex® SBS (Styrene-Butadiene-Styrene) hot asphalt or cold adhesive applied modified bitumen membranes to meet or exceed the industry standards for high performance membranes.

DuraFlex® SBS modified bitumen membranes are FM Approved, FBC Approved, UL Classified and listed with Texas Windstorm (TDI) Insurance. DuraFlex® 190 SBS, 190FR SBS, 250FR SBS, and G4FR SBS are available in ULTRA WHITE reflective granule option. Due to granule density, the Ultra White rolls are five pounds (5 lbs.) less than the standard rolls. CRRC Rated, initial SRI = 104, aged SRI = 68, initial reflectivity = 0.84, aged reflectivity = .057, initial emissivity = 0.90, aged emissivity = 0.91.

DURAFLEX® SBS TG BASE SHEETS - Application: Torch Welding						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
DuraFlex® 60TG SBS	2.3 mm	Fiberglass	Base/Interply	1.5 Squares	88 lb, 40 kg	D6163 Type I, S
DuraFlex® 90TG SBS	3.0 mm	Fiberglass	Base/Interply	1 Square	88 lb, 40 kg	D6163 Type I, S
DuraFlex® 190STG SBS	3.0 mm	Polyester	Base/Interply	1 Square	88 lb, 40 kg	D6164 Type I, S
DuraFlex® 250STG SBS	3.0 mm	Polyester	Base/Interply	1 Square	88 lb, 40 kg	D6164 Type II, S

DURAFLEX® SBS TG CAP SHEETS - Application: Torch Welding						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
DuraFlex® ALUM SBS	3.5 mm	Fiberglass Scrim	Cap/Flashing	1 Square	103 lb, 46 kg	D6298
DuraFlex® G4TG SBS	3.8 mm	Fiberglass	Cap	1 Square	105 lb, 48 kg	D6163 Type I, G
DuraFlex® G4FRTG SBS	3.8 mm	Fiberglass	Fire Rated Cap	1 Square	105 lb, 48 kg	D6163 Type I, G
DuraFlex® 190TG SBS	3.8 mm	Polyester	Cap	1 Square	105 lb, 48 kg	D6164 Type I, G
DuraFlex® 190FRTG SBS	3.8 mm	Polyester	Fire Rated Cap	1 Square	105 lb, 48 kg	D6164 Type I, G
DuraFlex® 250FRTG SBS	3.8 mm	Polyester	Fire Rated Cap	1 Square	105 lb, 48 kg	D6164 Type II, G

DuraFlex® TG SBS modified bitumen membranes are manufactured from exclusive formulas using the highest quality materials available in the market today and are one of the principle waterproofing components in U.S. Ply roof systems.

DuraFlex® TG SBS modified bitumen membranes are specifically designed to be heat-welded and cannot be adhered with hot asphalt or cold adhesive.

DuraFlex® TG SBS modified bitumen membranes are FM Approved, FBC Approved, UL Classified and listed with Texas Windstorm (TDI) Insurance. DuraFlex® G4FRTG SBS and 190FRTG SBS are available in ULTRA WHITE reflective granule option. Due to granule density, the Ultra White rolls are five pounds (5 lbs.) less than the standard rolls. CRRC Rated, initial SRI = 104, aged SRI = 68, initial reflectivity = 0.84, aged reflectivity = .057, initial emissivity = 0.90, aged emissivity = 0.91.

DURASTAR® SBS CAP SHEET - Application: Mop or Torch Welding						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
DuraSTAR® G4 TGW SBS	3.5 mm	Fiberglass	Cap	1 Squares	100 lb, 45.3 kg	D6163 Type I, S
DuraSTAR® G4 MOP SBS	3.5 mm	Fiberglass	Cap	1 Square	90 lb, 40.8 kg	D6163 Type I, S

DuraSTAR®SBS premium high reflectivity modified bitumen membranes are manufactured from exclusive formulas using the highest quality materials available in the market today and are one of the principle waterproofing components in U.S. Ply roof systems. U.S. Ply has engineered and developed DuraSTAR®SBS (Styrene-Butadiene-Styrene) modified bitumen membranes to meet or exceed the industry standards for high performance membranes.

DuraSTAR®SBS modified bitumen membranes are specifically designed to be either heat welded or be adhered with hot asphalt or solvent free cold adhesive.

DuraSTAR®SBS modified bitumen membranes are FM Approved and listed with Texas Windstorm (TDI) Insurance.

LIQUID FLASHING SYSTEM				
USP® PLY-FLASH & ACCESSORIES				
Product	Function	Application Method	Unit Size	Unit Weight
USP® PLY-FLASH 2-Part Liquid Flashing	Two-Part Flashing	Brush/Roller	4 gal 2 gal	40 lbs 20 lbs
USP® PolyForcement Fabric	Polyester Fabric	Embedment	6" x 300' 12" x 300' 18" x 300'	3 lbs. 6 lbs. 9 lbs.

USP® PLY-FLASH is a two-component, cold-applied modified asphalt flashing compound which is enhanced with polyurethane for use as flashing membrane for a variety of roof details on modified bitumen and BUR roofing systems. USP® PLY-FLASH (2-part) forms a monolithic, self-flashing and self-adhering reinforced flashing membrane for a variety of flashing applications, including wall flashings, penetrations, and repairs. It is used with USP® PolyForcement Fabric for additional strength for difficult flashing applications. It adheres to modified bitumen, BUR, concrete, brick/masonry, and metal. When using Ply-Flash liquid Flashing, all transitions must be reinforced using USP® PolyForcement Reinforcement.

USP® Ply-Flash consists of either a 2 or 4 gal container of Part A (modified asphalt compound) and (Part B) a (pre-measured hardener).

CONTRACTOR GRADE ROOFING PRODUCTS

APP MODIFIED BITUMEN CONTRACTOR GRADE

Application: Torch Welding						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
ALL WEATHER APP #85 GM FIBERGLASS	3.4 mm	Fiberglass	Cap	1 Square	85lb, 38.5 kg	D3909
ALL WEATHER APP 190S	3.5 mm	Polyester	Base/Interply/Cap	1 Square	84 lb, 38 kg	D6222 Type I, S
ALL WEATHER APP 190M	4.0 mm	Polyester	Cap	1 Square	98 lb, 44.5 kg	D6222 Type I, G
USP® APP 160S	3.5 mm	Polyester	Base/Interply/Cap	1 Square	84 lb, 38 kg	D6222 Type I, S
USP® APP 160M	4.0 mm	Polyester	Cap	1 Square	98 lb, 44.5 kg	D6222 Type I, G
USP® TUFFCAP 190S	3.5 mm	Polyester	Base/Interply/Cap	1 Square	84 lb, 38 kg	D6222 Type I, S
USP® TUFFCAP 190M	4.0 mm	Polyester	Cap	1 Square	98 lb, 44.5 kg	D6222 Type I, G

U.S. Ply has engineered and developed our APP (Atactic Polypropylene), torch applied only, modified bitumen membranes to meet or exceed the industry standards for standard performance APP membranes.

U.S. Ply modified bitumen membranes are FM Approved, FBC Approved, UL Classified and listed with Texas Windstorm (TDI).

SBS MODIFIED BITUMEN CONTRACTOR GRADE

Application: Mop, Adhesive						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
ALL WEATHER SBS #85 GM FIBERGLASS	3.4 mm	Fiberglass	Cap	1 Square	85lb, 38.5 kg	D3909
ALL WEATHER SBS 190M	3.8 mm	Polyester	Cap	1 Square	98 lb, 44.4 kg	D6164 Type I, G
USP® SBS 160M	3.8 mm	Polyester	Cap	1 Square	98 lb, 44.4 kg	D6164 Type I, G
USP® TUFFCAP 190M	3.8 mm	Polyester	Cap	1 Square	98 lb, 44.4 kg	D6164 Type I, G

U.S. Ply has engineered and developed our SBS (Styrene-Butadiene-Styrene), modified bitumen membranes to meet or exceed the industry standards for standard performance SBS membranes.

U.S. Ply modified bitumen membranes are FM Approved, FBC Approved, UL Classified, and listed with Texas Windstorm (TDI).

SELF ADHERED MODIFIED BITUMEN CONTRACTOR GRADE

Application: Self Adhered						
Product	Thickness	Reinforcement	Function	Roll Size	Roll Weight	ASTM
ALL WEATHER NAIL BASE	1.5 mm	Fiberglass	Base Sheet	2 Squares	82 lb, 37 kg	D4601 Type II
ALL WEATHER SA BASE	1.5 mm	Fiberglass	Base/Interply	2 Squares	75 lb, 34 kg	D1970
ALL WEATHER SA CAP	3.0 mm	Fiberglass	Cap	1 Square	75 lb, 34 kg	D7530
ALL WEATHER SYNTHETIC NAIL BASE	.17 mm	Woven Synthetic	Base	10 Squares	23 lb, 10 kg	D 4869 Type I-IV D 226 Type II
ALL WEATHER HTSA – 90	1.0 mm	Woven Synthetic	Base/Interply	2 Squares	44 lb, 20 kg	D 1970
USP® 180 HT-NS ROOFING UNDERLAYMENT	1.1 mm	Woven Synthetic	Base/Interply	2 Squares	42.5 lb, 19.2 kg	D 1970

U.S. Ply has engineered and developed our SBS (Styrene-Butadiene-Styrene) Self-Adhered, modified bitumen membranes to meet or exceed the industry standards for standard performance SBS SA membranes. U.S. Ply modified bitumen membranes are FM Approved, FBC Approved, UL Classified, and listed with Texas Windstorm (TDI).

MODIFIED BITUMEN & BUR ACCESSORIES

USP® APP & SBS WALKBOARD & USP® ROOFING GRANULES

Product	Description	Nominal Size
USP® APP Walkboard	Composite adhered APP modified bitumen board designed for use as a designed walkway.	32'' x 32''; 18 lb
USP® SBS Walkboard	Composite adhered SBS modified bitumen board designed for use as a designed walkway.	32'' x 32''; 18 lb
USP® Roofing Granules	For matching roll colors. Available in White, Ultra White, Tan, Weathered Wood, Dark Brown, Black, Grey, and Cedar Blend (See color chart for details/samples).	5 Gal. Pails

USP® ADHESIVES, CEMENTS, COATINGS & PRIMERS

Product	Function	Application Method	Unit Size	Unit Weight
USP® 41 Standard Asphalt Primer	Asphalt Primer	Brush/Roller	5 Gal. Pail	39 lb/pail
USP® SA Primer	Hi-Tack Primer	Brush/Roller	5 Gal. Pail	42 lb/pail
USP® 901 Premium SBS Adhesive	Membrane Adhesive	Squeegee or Spray	5 Gal. Pail	47 lb/pail
USP® 954 Premium SBS Flashing Cement	Flashing Cement	Brush or Trowel	5 Gal. Pail	49 lb/pail
ICP Polyset CR-20 Commercial Roofing Insulation Adhesive	Two-part polyurethane low-rise foam adhesive	Spray Dispenser	(2) 4 Gal. Cylinders	Part A = 40lb Part B = 35lb
ICP PolySet BoardMax Commercial Roofing Insulation Adhesive	Two-part polyurethane low-rise foam adhesive	Spray Dispenser	4 - 1.5L Cartridges	18 lb/unit
OlyBond500 Insulation Adhesive	Two-part polyurethane low-rise foam adhesive	Spray Dispenser	(2) 5 Gal. Cylinders	Part 1 = 47lb Part 2 = 44lb
OlyBond500 Bag in Box Set	Two-part polyurethane low-rise foam adhesive	Pace Cart Spray Dispenser	(2) 5 Gal. Box Containers	Part 1 = 53lb Part 2 = 43lb

U.S. Ply, Inc. has developed a full line of asbestos free formulations of contractor and professional grade adhesives, cements, and primers. U.S. Ply starts with select grades of asphalt or polymers and combines them with a unique blend of specially formulated components to enhance the high quality characteristics in each U.S. Ply liquid product. U.S. Ply, Inc. manufactures and markets a full line of commercial roofing products – we have the knowledge and the expertise in supplying the highest quality products combined with innovative solutions to the ever changing dynamics of the roofing industry.

BUILT UP ROOFING PRODUCTS

USP® BUR ROOFING PRODUCTS

USP® BUR BASE/PLY/CAP SHEETS

Product	Function	Roll Size	Roll Weight	ASTM
USP® Base Sheet	Base Sheet	3 Squares	82 lb, 37 kg	D4601 Type II
USP® NVB (Nailable Venting Base)	Venting Base Sheet	1 Square	72 lb, 33 kg	D4897 Type II
USP® Type IV Glass Ply Sheet	Interply	5 Squares	45 lb, 20 kg	D2178 Type IV
USP® Type VI Premium Glass Ply Sheet	Interply	5 Squares	50 lb, 23 kg	D2178 Type VI

U.S. Ply offers a full line of fiberglass base sheets, interply felts, and cap sheets under the USP® label for built-up roofing applications and/or hybrid BUR/modified roofing systems.

U.S. Ply produces its membranes with granule surfacing for added UV protection and a mineral-textured look, or unsurfaced, ready for application of a wide range of different surfacing materials.

U.S. Ply built-up roofing materials are FM Approved, FBC Approved, UL Classified and listed with Texas Windstorm (TDI) Insurance.



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