

Sure-Weld[®] TPO

Adhesives & Sealants

Sure-Weld Bonding Adhesive

is a high strength solvent-based contact adhesive that allows bonding of Sure-Weld membrane to various porous and non-porous substrates.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Yellow
Solids	20%
Flash Point	-4°F (-20°C) Closed Cup
VOC	669 grams/liter
Average Brookfield Viscosity	2600 Centipoises
Average Net Weight	7.1 lbs./gal (3.2 Kg)
Packaging	5 gallon pails
Shelf Life	1 year

Low-VOC Bonding Adhesive 1168

is a high-strength, solvent-based contact adhesive that allows bonding of EPDM and TPO membrane to various porous and non-porous substrates. Low-VOC Bonding Adhesive 1168 is compatible with polyisocyanurate insulation, structural and lightweight concrete, plywood, oriented strand board, wood fiberboard, SECUROCK[®], masonry and various metal finishes.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Yellow
Solids	21%
Flash Point	0°F (-18°C)
VOC	<250
Average Brookfield Viscosity	4500 cps
Average Net Weight	10.5 lbs./gal (4.3 Kg)
Packaging	5 gallon pails
Shelf Life	1 year

Low-VOC Bonding Adhesive

is a high strength solvent-based contact adhesive that allows bonding of Sure-Weld membrane to various porous and non-porous substrates. It is specially formulated using a blend of VOC exempt and non-exempt solvents to be in compliance with the state of California Clean Air Act of 1988 (updated in 1997) and is further regulated by California's Air Quality Control Districts listing VOC grams per liter limitations.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Yellow
Average Solids	20.3%
VOC	250 grams/liter max
Flash Point	0°F (-17°C) Closed Cup
Average Brookfield Viscosity	3500 Centipoises
Average Net Weight	9.4 lbs./gal (4.3 Kg)
Packaging	5 gallon pails
Shelf Life	1 year

CAV-GRIP III Low-VOC Adhesive/Primer

is a low-VOC adhesive/primer which can be used for a variety of applications: adhering FleeceBACK[®], standard Sure-Weld TPO, and Sure-Seal[®] EPDM membrane to vertical walls. CAV-GRIP III can also be used with standard TPO membranes as a substrate adhesive on horizontal surfaces for warranties up to 20 years.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Blue/Green
Solids	30.05%
Flash Point	156°F (104.4°C)
VOC	248 g/L
Average Brookfield Viscosity	N/A
Average Net Weight	6.87 lbs./gal
Packaging	30 lb #40 Aerosol Cylinder
Shelf Life	1 year

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Standard TPO Primer

is a high-solids-content, clear (translucent color), polymer-based splice primer used to prepare TPO membrane for improved adhesion to pressure-sensitive TPO accessories.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Orange/Red
Solids	19%
Flash Point	40° F (4° C)
VOC	645 g/L
Average Brookfield Viscosity	<200 cps
Average Net Weight	7.26 lbs/gal
Packaging	6 x 1 gallon pails per carton
Shelf Life	9 months

Cut-Edge Sealant

is a free flowing polymeric material designed for sealing cut edges (exposed fabric) of Sure-Weld reinforced membrane.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Clear
Average Solids	14%
Flash Point	39° F (4° C)
Average Brookfield Viscosity	3500 Centipoise
VOC	750 Grams/liter
Average Net Weight	7.4 lbs./gal (3.3 Kg)
Packaging	8 – 16oz. Bottles/carton (3.8L)
Shelf Life	1 year

Low-VOC TPO Primer

is a low solids, clear (translucent color) solvent-based splice primer used to prepare TPO membrane for improved adhesion to pressure sensitive TPO products.



Typical Properties and Characteristics

Color	Translucent
Appearance	Smooth, no lumps
Solids	10-12%
Average Net Weight	10.4 lbs./gallon (4.72 kg/gallon)
VOC Content	250 grams/liter max
Packaging	6-1 gallon cans/carton
Shelf Life	1 year, unopened container

Low-VOC Cut-Edge Sealant

is a free-flowing polymeric material designed to be used for sealing cut edges of Sure-Weld TPO Reinforced Membrane. It is available in clear for use with various colors of TPO membrane. Carlisle's Low-VOC TPO Cut-Edge Sealant is used to seal cut edges of TPO Membrane, providing a waterproof barrier where scrim reinforcement is exposed.



Typical Properties and Characteristics

Base	Synthetic Rubber
Color	Colorless
Solids	23-25%
Flash Point	40° F (4° C)
VOC	235 g/L
Average Brookfield Viscosity	4000 cps
Average Net Weight	10 lbs/gal
Packaging	Twelve 16-oz bottles/carton (5.68 L)
Shelf Life	1 year

Universal Single-Ply Sealant

is 100% solids, solvent-free, one-part polyether sealant that provides a weather tight seal to a variety of building substrates. HP-250 can also be used with EP-95 Splicing Cement.



Typical Properties and Characteristics

Color	White
Viscosity	850,000 Cps.
Tack Free Time	35 minutes depending on temp/humidity
Cure Time	3-7 days depending on temp/humidity
Flow, Sag or Slump	None (1/4" Bead)
Staining	None
Ozone Resistance	Good
UV Resistance	Excellent
Cured Hardness (Shore A)	17-23
Shear Strength	150 PSI
Weight per Carton	26 lbs
Packaging	24 Cartridges, 10.1 Fl. Oz. each
Shelf Life	12 months, unopened container @ 90°F

Sure-Seal Water Cut-Off Mastic

is a one-component, low viscosity, self-wetting butyl blend mastic used with roofing and waterproofing systems. It is primarily used when membrane is being terminated using a compression-type seal.



Typical Properties and Characteristics

Color	Gray
Solids	80%
Flash Point	40° F (4° C) Closed Cup
Service Temp.	-40° F to 200° F (-40° C to 93° C)
Specific Gravity	1.29
Cold Weather Flex	Excellent
Average Brookfield Viscosity	1,320,000 cps
Packaging	10 tubes/Carton, 5 gallon pails
VOC	250 grams/liter
Clean up	Weathered Membrane Cleaner
Average Net Weight/gallon	10.7 lbs. (4.9 Kg/gallon)
Shelf Life	1 year, unopened container

Aqua Base 120

Aqua Base 120 is a unique, semi-pressure sensitive water-based bonding adhesive for FleeceBACK and TPO membranes offering superior peel strengths without V.O.C.'s or strong odors.

Aqua Base is installed via roller or spray application for a wet lay-in of FleeceBACK membranes. Aqua Base 120 can also be utilized as a contact adhesive for TPO membranes. Finished coverage rate is 120 sq. ft. per gallon and it is packaged in 5 gallon pails.



Typical Properties and Characteristics

Base	Acrylic
Color	White (translucent when dry)
Solids	43%
Flash Point	None
Brookfield Viscosity	16,000 Centipoise
Average Net Weight	8.8 lbs./gal
Packaging	5 gallon pails
Shelf Life	1 year
VOC	7 grams per liter less water

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Weathered Membrane Cleaner

is used to clean in-service Sure-Weld membrane prior to the welding process. It helps to loosen and remove dirt and other contaminants from the surface of the Sure-Weld membranes and leaves a suitable surface for welding or the subsequent application of TPO Primer.



Typical Properties and Characteristics

Color	Clear
Solids	0%
Flash Point	65°F (18°C)
Boiling Point	260-291°F (127-144°C)
Packaging	5 (18.9 liters) gallon closed top pail
VOC	755 grams/liter

Low-VOC Weathered Membrane Cleaner

is used to clean both new and in-service Sure-Flex™ PVC or KEE HP membranes, Sure-Weld TPO membranes and Sure-Seal, Sure-White®, and Sure-Tough® EPDM membranes prior to the seaming process. Low-VOC Membrane Cleaner contains 100% EPA-exempted solvents and can be used in a wide variety of temperatures.



Typical Properties and Characteristics

Base	Solvent
Color	Colorless
Solids	0%
Flash Point	0° F (-18° C)
VOC	0 g/L (100% EPA-exempted solvents)
Average Brookfield Viscosity	1 cps
Average Net Weight	8.01 lbs/gal
Packaging	2 x 1-gallon (3.8-liter) closed-top pails per carton 5-gallon (18.9-liter) closed-top pail
Shelf Life	1 year

Thermoplastic One Part Sealant

is a single component, moisture curing, elastomeric polyether sealant that is compatible with Carlisle's Thermoplastic membranes. The material is designed to provide a flexible, durable and long lasting seal around hard-to-flash penetrations in Thermoplastic Roofing Systems. The product can also be used for attaching lightning rod bases and ground cable clips to the membrane surface. Thermoplastic One Part Pourable Sealer provides rapid skin time when exposed to atmospheric moisture forming a waterproof rubber surface in less than one (1) hour. Moisture curing continues, until a two (2) - inch deep solid rubber seal encases the penetration. Complete cure time will vary depending on relative humidity and temperature.

The sealant's one-part, pourable consistency allows for quick pocket filling without mixing. Carlisle's TPO Primer must be applied to all surfaces, including membrane, flashings and penetrations that will be in contact with the Thermoplastic One Part Pourable Sealant. Unused sealant remaining in a pouch will remain useable up to 30 days if pouch is resealed with original cap.



Typical Properties and Characteristics

Specific Gravity	1.4 (11.6 lbs/gallon) 1.44 (12.0 lbs/gallon)
Viscosity (Brookfield RTV), cps	Self leveling 20,000 - 50,000
Color	White
Odor	Mild ester smell (mint) when wet. Odorless when dry
Elongation @ Break, % ASTM D-0412 - (7 day ambient cure)	450
Hardness, (Shore A) ASTM C-0661	25 - 35
Tack Free Time ASTM C-0679 Less than 1 hour - @ 70 degrees F.	Less than 1 hour
Low temperature flex PASS	-20° F.
Shrinkage (14 day cure)	No measurable shrinkage
Service temperature ASTM 2453	-40° F to 200° F.
Long term weatherability ASTM G53 - 98 cycles @ 12 hours/cycle - (condensate exposure - 4 hrs @ 50°C) - (U.V. exposure - 8 hrs @ 70°C)	No crazing or cracking
Packaging	4-0.5 gallon pouches per bucket
Weight Per Carton	29 lbs. / bucket
Shelf Life (unopened container)	12 months