

Custom Seal (PVC) Product Data Sheets

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Custom Seal (PVC)

1.2 mm (0.048")

1.5 mm (0.060")

Description:

Custom Seal roofing membrane consists of a Polyvinyl Chloride (PVC) membrane manufactured with a 9 x 9, 1,000 denier polyester reinforcement. This membrane comes in widths of 1.9 m (75") and 3.7 m (12.4'), lengths of 30.4 m (100'), and in thicknesses of 1.2 mm (0.048") and 1.5 mm (0.060") roll goods. Factory fabricated sizes varies in width, Length 100' max.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color (Face)		White, Grey, or Tan
Weight	ASTM D-751	48 mil – 1.50 kg/m ² (0.30 lb/ft ²) 60 mil – 2.00 kg/m ² (0.40 lb/ft ²)
Thickness, nominal	ASTM D-751	1.2 mm (0.048") 1.5 mm (0.060")
Breaking Strength	ASTM D-751	889 N (200 lbf.), Min. 1.3 kN (290 lbf.), Typ.
Elongation	ASTM D-751	27%
Tearing Strength	ASTM D-751	200 N (45 lbf.), Min. 222 N (50 lbf.), Typ.
Properties after Heat Aging (% of Original)	ASTM D-751 Per ASTM D-3045	
Breaking Strength		90%
Tearing Strength		90%
Elongation		90%
Resistance to Cold 3.2 mm (1/8") Mandrel	ASTM D-2137	-40°C (-40°F)
Linear Dimensional Change, Max.	ASTM D-1204	0.5% Max. 0.1%, Typical
Adhesion	ASTM D-751	2.6 kN/m (15 lbs./in)
Seam Strength % of Original Breaking Strength, min.	ASTM D-751	75%
Weather Resistance, no cracks or crazing	ASTM G-151 ASTM G-153 ASTM G-154	Pass
Reflectivity	ASTM E-903	White – 78 Grey – 52 Tan – 53
Water Vapor Transmission	ASTM E-96 Dessicant Method	0.115 g/h·m ²

Installation:

Custom Seal PVC may be installed as a mechanically attached or a fully adhered system. Please consult current PVC specifications for specific application needs.

Preparation of Substrates:

- Substrates must be clean, dry, smooth, free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials which may damage the membrane.
- All roughened surfaces, which could damage the membrane, shall be repaired as specified to offer a smooth substrate.
- All surface voids greater than ¼" wide, shall be properly filled with an acceptable material.

Product Data:

Available Sizes:

- 1.9 m (75") x 30.4 m (100')
- 3.7 m (12.4') x 30.4 m (100')

Half Sheet Widths:

- 939 mm (37") x 30.4 m (100')
- 1.9 m (75") x 30.4 m (100')

Reinforced Flashing:

- 152 mm (6") x 30.4 m (100')
- 457 mm (18") x 30.4 m (100')

Storage: Store away from sources of punctures and physical damage in original unopened packaging.

Precautions:

- Assure that structural decking will support the loads incurred by the material stored on roof top. The deck load limitations should be specified by the project designer.
- Take care when moving, transporting, handling, etc., to avoid sources of punctures and physical damage.
- Isolate waste products; such as, petroleum products, greases, oils (mineral and vegetable), and animal fats from the membrane.
- Contact Custom Seal Roofing Systems Technical Department for specific recommendations.

Custom Seal PVC Bonding Adhesive

Description:

Custom Seal PVC Bonding Adhesive is a solvent-based adhesive used to adhere Custom Seal to various substrates, including polyisocyanurate and wood fiberboard insulations.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Base	Nitrile/PVC
Color	Amber
Solids	15 – 20%
Solvents	MEK, Toluene
Viscosity	2,000 – 3,000 cps, RVF Brookfield, #3 spindle @ 10 RPM
Weight	0.8 Kg/L (7.05 lbs/gal) (Nominal)
Specific Gravity	0.845 (Nominal)
Shelf Life	9 Months when stored at temperatures no higher than 27°C (80°F) in unopened containers.

Installation:

1. Fold sheet back so one-half (½) of the underside of the sheet is exposed. Insure the sheet fold is smooth with no wrinkles or buckles.
2. Stir Custom Seal PVC Bonding Adhesive. **DO NOT THIN WITH SOLVENTS.**
3. With a 228 mm (9") medium nap roller, approved spray equipment, or power roller equipment, apply RM Bonding Adhesive – Type "S" to the substrate and the membrane. Do not apply RM Bonding Adhesive to splice area. Avoid globs or puddles of adhesive.
4. Allow adhesive to dry until tacky, but will not string or stick to a dry finger touch.
5. Roll the adhesive coated membrane into the adhesive coated substrate avoiding wrinkles.
6. Using a push broom, brush down the bonded half of the sheet to achieve maximum contact.
7. Fold back the unbonded half of the sheet and repeat bonding procedure.
8. Apply adjoining sheets in the same manner, lapping edges a minimum of 76 mm (3") and follow Custom Seal Roofing Systems standard details for splice application.
9. Any wrinkles found greater than 51 mm (2") high or if the wrinkle impedes the flow of water drainage, must be cut, laid flat, and patched over using standard splicing procedures.

Application Precautions:

- 100% adhesive coverage of both the membrane and substrate is required
- Do not apply bonding adhesive to seam areas.
- Avoid globs or puddles of adhesive.

Product Data:

- **Container Size:** 18.9 Liters (5 gallon) Pails.
- **Coverage Rate:** Applied correctly, 3.8 L (1 gallon) of bonding adhesive will cover approximately 5.6 m²-6.5 m² (60-70 square feet) of finished surface.
- **Storage:** Store indoors in original unopened containers at temperature between 16°C (60°F) and 27°C (80°F). When exposed to lower temperatures, restore to room temperature prior to use.
- **Shelf Life:** 9 Months in unopened containers.
- **Flash Point:** Less than 18°C (0°F).
- **Tolerance Limit:**

Toluene	100 parts per million in air
MEK	200 parts per million in air

Precautionary Data:

This product is extremely flammable. Vapors may cause flash fires. Vapors may ignite explosively under certain conditions. Keep away from fire, sparks, and sources of heat. Open all doors and windows. Extinguish all flames and pilot lights. Turn off electronic motors, stoves, or heaters, or any sources of ignition during use and until all vapors have been dispersed. Do not smoke. Close all containers after use.

- **USE WITH ADEQUATE VENTILATION**
- **AVOID PROLONGED BREATHING OF VAPORS**
- **AVOID PROLONGED AND REPEATED CONTACT WITH SKIN**
- **STORE AT TEMPERATURES OF 32°C (90°F) OR BELOW FOR MAXIMUM SHELF LIFE**
- **KEEP OUT OF REACH OF CHILDREN**

PVC BONDING ADHESIVE (W) (Water Based)

Description:

Custom Seal PVC Bonding Adhesive (W) is a water-based polymeric wet lay-in (single-side), low VOC adhesive designed to attach Custom Seal PVC membrane to High Density Wood Fiberboard, Polyisocyanurate, or other approved substrates.

The single-side application reduces installation time and the low VOC provides a product that conforms to many air quality requirements. This product may be substituted for the solvent based bonding adhesive.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Base	Synthetic
Color	White
Solids	50% +/- 1%
Solvents	Water
Weight	1Kg/L (8.86 lbs./gal) (nominal)
Specific Gravity	1.06 (Nominal)
Viscosity	10,000 cps RVF Brookfield #5 spindle @10 RPM
Volatile Organic Compounds	95 g/L

Installation:

A. Horizontal:

1. The deck surface must be clean, dry, smooth, and free of any foreign materials, grease, or oil.
2. Stir well assuring a complete mix between adhesive components. No streaks or swirls should be noticed when properly mixed. NOTE: DO NOT THIN MATERIAL.
3. Using a 228 mm (9") medium 9.5 mm (3/8") nap roller, apply adhesive onto the roofing substrate, out 10 to 15 feet the width of the membrane. The bonding adhesive should appear speckled on the typically black substrate. (DO NOT COAT TO TOTALLY WHITE APPEARANCE).
4. Fold the membrane into the wet adhesive, avoiding wrinkles. Using a heavy roller or push broom apply pressure to the surface to promote 100% adhesion. Depending on drying conditions re-rolling the surface may be required.
5. Continue by applying adhesive in front of the membrane roll while **gradually rolling the membrane** into the fresh adhesive assuring alignment. DO NOT KICK OUT ROLL.
6. After careful alignment of the next roll of membrane (allowing for the 63 mm (2½") seam lap), repeat the adhering procedure above.

B. Vertical:

1. For extremely porous substrates such as concrete blocks apply a **light seal coat** of the adhesive to the substrate and allow it to dry (white to clear in color).
2. Apply adhesive to **membrane** and a **second coat to the wall**.
3. Flashing is recommended to be 1.2 mm (0.048") reinforced membrane and a maximum 10 feet in length.
4. Allow adhesive to **dry to finger tack**. Apply membrane onto wall applying pressure to assure a complete 100% bond.
5. The flashing should be mechanically secured to the wall, per the selected termination detail, **immediately** after it is glued to the wall.
6. Use Custom Seal Metal Bar Anchors or Seam Plates at 1.22 m (48") Max. intervals.

Application Precautions:

- Do not apply horizontally to non-porous surfaces such as polyethylene and foil faced polyisocyanurate insulation.
- Avoid globs or puddles of adhesive.
- Do not apply adhesive to seam area.
- Adhesive (horizontal application) must be wet or partially wet to finger tack for proper bonding of membrane to substrate. **If the adhesive dries to clear in color, re-coat the surface.**
- Must install at temperatures above 5°C (40°F) and rising.
- The outside temperature, on the roof, must be above 5°C (40°F) for a period of 48 hours after installation.
- Adhesive that is gritty when rubbed between fingers has been frozen or has exceeded the shelf-life and must be discarded.

Product Data:

1. **Container size:** 18.9 Liters (5 gallon) Pails
2. Store indoors in original unopened containers. **Keep from freezing, and do not store below 40°F in warehouse or roof.**
3. **Shelf Life:** One year in unopened containers.
4. **Coverage Rate:** Apply adhesive to the SUBSTRATE ONLY at the rate of 3.4 – 3.6 m²/L (140-150 square feet per gallon). The coverage rate will vary according to the porosity of the substrate.

Precautionary Data:

- Avoid prolonged and repeated contact with skin.
- Keep out of reach of children.
- DO NOT THIN.
- Keep adhesive from freezing.
- Material Safety Data Sheet is available upon request.

Custom Seal Low-Rise Insulation Adhesive

Description:

Custom Seal Low Rise Insulation Adhesive is a one part, non asphaltic, 100% solids, solvent free, VOC compliant, moisture cured low rise urethane foam adhesive that does not require special tools or applicators. Custom Seal Low Rise Insulation Adhesive is a pourable liquid which begins to set within minutes after application. It is designed for use as an adhesive for bonding approved roof insulation types to a buildings roof deck, base sheets, other insulation boards and smooth built-up roof (non-graveled) surfaces for new and recover applications.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color		Off-White/Amber
Tensile Strength	ASTM D-412	1.72 MPa (250 psi.)
Density	ASTM D-1875	1 kg/L (8.5 lb/gal.)
Viscosity	ASTM D-2556	22,000 – 60,000 cps
Peel Strength	ASTM D-1876	2.98 N/m (17 lb/in).
Flexibility	ASTM D-816	pass @ -57°C (-70° F)
Shelf Life	ASTM D-1337	9 months when stored 16°-27°C (60°-80°F) in inverted* unopened containers.

Installation:

1. All work surfaces should be clean, dry, free from dust, dirt, oils, loose and/or embedded gravel, unadhered (failing) coatings, deteriorated membrane, and other contaminants that may result in a surface that is not sound. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate.
2. Apply Custom Seal Low Rise Insulation Adhesive by pouring it directly from the can to the substrate, using a ribbon pattern with a 13 mm (½") to 19 mm (¾") beads to achieve proper coverage rates.
3. Immediately place the insulation board type into the wet adhesive. Do NOT allow the adhesive to skin over.
4. Step/Walk boards into place (gaps no greater than 6 mm (¼")).
5. Follow roof systems and insulation board manufacturer's instructions regarding joint stagger and multiple layer requirements.

Application Precautions:

1. **Approved Substrates:**
 - Structural Concrete
 - 22 Gauge (min.) Steel.

- Gypsum
- Cementitious Wood Fiber
- Base Sheets (ASTM D4601 Type II)
- Multi-layer applications of approved insulation types
- Re-roof applications on smooth built-up roof.
- Modified Bitumen (Granule Surface)

2. **Slope Limitations: 2:12 Maximum.**
3. Do not apply to wet surfaces. Custom Seal Roofing System does not allow the use of this adhesive with insulation boards larger than 1.2 m x 1.2 m (4 ft. x 4 ft.).
4. **Apply when temperatures are 4.4°C (40° F) and rising.**
5. Prior to using Custom Seal Insulation Adhesive in cold temperatures keep the material in a heated area 20°C (70° F). Over-night storage should be sufficient. This will increase the ease of handling.

Product Data:

- **Container Size:** 11.4 Liters (3 gallon) Pails.
- **Shelf Life:** 9 Months when stored in original unopened containers. For maximum shelf life store pails with the lid side down.
- ***Storage:** The adhesive has improved storage life if stored with the lid down. Custom Seal Insulation Adhesive should be stored between 16-27°C (60-80°F) in inverted unopened containers. Store opened cans in the lid up position.
- **Coverage Rate:** Typical coverage rate is 46.45 m² per 11.4 liter pail (500-600 ft² per 3 gallon pail). Coverage rates may be slightly higher over irregular surfaces.
- **Equipment:** Custom Seal Low Rise Insulation Adhesive may be applied directly from the can, ladle, or multi-port adhesive applicator capable of applying minimum 13 mm (½") beads or any spouted container.

Precautions:

- Review the Material Safety Data Sheet for complete safety information prior to use.
- Do not breathe fumes or vapors from this product.
- Do not get this material in your eyes, on your skin, or on your clothing.
- Use this product with adequate ventilation.
- Keep this product from heat, sparks, or open flame.
- Wash thoroughly after handling.
- As with all chemicals, good industrial hygiene practices should be followed when handling this material.
- Material Safety Data Sheet available upon request.

Custom Seal Waterstop

Description:

Waterstop is a one-component, low viscosity, self wetting, butyl blend mastic designed to be used in conjunction with roofing systems. It is primarily used as a sealing agent between the Custom Seal membranes and applicable when the membrane is being terminated using a compression type seal.

Waterstop is an extremely tacky material and will remain as such when used with compression type terminations.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color		Grey
Butyl Polymer & Solids	ASTM C-681	82% Min.
Light Aliphatic Solvent Naphtha	ASTM C-681	18% Max.
Viscosity (preferred method)	Siever's Rheometer	.104 orifice @ 275 kPa (40 psi)=15-20 seconds/20 grams
Viscosity	ASTM D-1824 #7 @ 2 rpm	2,000,000 cps ± 300,000 cps
Weight	ASTM D-1475	1.2 – 1.3 Kg/L (10-10.83 lbs/gal)
Flash Point	ASTM D-1310	10°C (50°F) T.C.C.
Coverage	ASTM D-1005	6 m per 296 cm ³ (20' per 10 oz.) (nominal)
Storage Life	ASTM D-1337	9 months between 16-27°C (60-80°F) in unopened containers.
Bond Strength	ASTM D-413	Won't strip
Specific Gravity	ASTM D-1475	1.20 – 1.30

Installation:

1. Apply Custom Seal Waterstop only on clean, dry surfaces in accordance with the appropriate Custom Seal specifications or details.
2. Surfaces onto which waterstop is used shall be free from loose concrete, stone, mortar, foreign materials, and other contaminants.
3. Apply a minimum 9 mm (3/8") bead to substrate surface. Bring the mating surface of the flashing membrane into contact with the mastic. Roll or press the flashing membrane firmly against the seal and substrate avoiding wrinkles to assure a complete seal.

4. Apply appropriate termination material and secure to provide constant compression for the waterstop.

Product Data:

- **Container Size:** 326 mL(11 fl. oz.) per tube, 25 tubes per carton.
- **Coverage Rate:** 4.6 m (15 lf) per tube.
- **Shelf Life:** 9 Months when stored between 16 – 27°C (60-80°F) in original unopened containers.
- **Storage:** Store Custom Seal Waterstop indoors between 16 – 27°C (60-80°F). Do not store on roof in direct sunlight.

PRECAUTIONARY DATA

Review the applicable Material Safety Data Sheet for complete safety information prior to use.

Custom Seal Waterstop is **FLAMMABLE**—vapors can form explosive mixture with air. Keep away from all sources of sparks and open flames, including cigarettes, cigars, and pipes. A red caution label is required when shipping.

- Avoid breathing vapors. Keep container closed when not in use. Use with adequate ventilation. If inhaled, remove to fresh air.
- If swallowed, do not induce vomiting. Call a physician immediately.
- Avoid contact with eyes. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes.
- Avoid contact with skin. Wash thoroughly after handling.
- **KEEP OUT OF REACH OF CHILDREN**

Custom Seal Night Seal

Description:

Custom Seal Night Seal is a low viscosity, self wetting, butyl blend mastic designed to be used in conjunction with roofing systems. Custom Seal Night Seal is an extremely tacky material and is used as a sealing agent for temporary water tight seals.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color		Grey
Butyl Polymer & Solids	ASTM C-681	82% Min.
Light Aliphatic Solvent Naphtha	ASTM C-681	18% Max.
Viscosity (preferred method)	Siever's Rheometer	.104 orifice @ 275 kPa (40 psi)=15-20 seconds/20 grams
Viscosity	ASTM D-1824 #7 @ 2 rpm	2,000,000 cps ± 300,000 cps
Weight	ASTM D-1475	0.9 Kg/L (7.5 lbs/gal) (nominal)
Flash Point	ASTM D-1310	10°C (50°F) T.C.C.
Coverage	ASTM D-1005	2.5 – 3.3 lin. m/L (30-40 lin. ft/gal)
Bond Strength	ASTM D-413	Won't strip
Specific Gravity	ASTM D-1475	1.20 – 1.30

Installation:

At the completion of each day's work, all loose edges of the membrane must be temporarily sealed with Custom Seal Night Seal. Care must be used to guarantee that no water flows beneath any completed sections of roof. When possible, begin installation at the highest point of the project area and work to the lowest point. Custom Seal Night Seal must be cut out and discarded prior to resumption of work.

1. Substrate surface must be free from dust, oils, water, and other contaminants.
2. Fold membrane back approximately 254 mm (10") and pour night seal in a continuous layer 51mm (2") wide x 6mm (1/4") thick onto prepared substrate. DO NOT THIN. It may be necessary to use a trowel to spread the material in order to achieve the proper coverage.
3. Roll the membrane back over the night seal providing pressure over the entire length of the cut-off. Check for continuous contact and weight the edge.

Product Data:

Container Size: 18.9 Liters (5 gallon) Pail

Storage: Storage should be indoors between 16-27°C (60-80°F). Do not store on roof in direct sunlight.

Shelf Life: A shelf life of 9 months can be expected when stored between 16°-27°C (60°-80°F) in unopened containers.

Precautionary Data:

Review the applicable Material Safety Data Sheet for complete safety information prior to use.

Night Seal is FLAMMABLE—vapors can form explosive mixture with air. Keep away from all sources of sparks and open flames, including cigarettes, cigars, and pipes. A red caution label is required when shipping.

Avoid breathing vapors.

Keep container closed when not in use.

Use with adequate ventilation.

If inhaled, remove to fresh air.

If swallowed, do not induce vomiting.

Call a physician immediately.

Avoid contact with eyes. If splashed in eyes, immediately flush eyes with plenty of clean water for at least 15 minutes.

Avoid contact with skin. Wash thoroughly after handling.

KEEP OUT OF REACH OF CHILDREN

Custom Seal Pitch Pan Sealer

Description:

Custom Seal Pitch Pan Sealer is a two part modified aromatic urethane pourable grade sealant that is used to seal around irregular penetrations on the roof. Please refer to current Custom Seal specifications and details for specific application requirements.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Temperature Resistance:	
Continuous	93°C (200°F)
Intermittent	104°C (220°F)
Minimum	-37°C (-35°F)
Elongation	300%
Weatherometer Exposure	Very Good
Dimensional Stability	-0.1% - Length Change
Hardness	40 Shore A ± 5
Tensile Strength	1378 kPa (200 psi)
Abrasion Resistance	Very Good

Application Instructions:

See details T-9.01 & T-9.02.

1. Remove the lid from the Part A bucket. Part A is white and is very thick.
2. Carefully remove the lid from the Part B can. Part B is black, very thin and free flowing.
3. Pour the black Part B into the white Part A bucket.
4. With the enclosed paddle and a power screwdriver, carefully mix Parts A and B together. The black Part B will mix in the white Part A causing a marble effect in the sealer. Continue mixing until the sealer entirely turns black. At that time mixing is complete.
5. Do Not Thin.
6. Pour the mixed pitch pan sealer into the clean and dry pitch pan.

Application Precautions:

Do not apply below 4°C (40°F) or when the surface temperature is less than -15°C (5°F) above the dew point.

Pitch pans must be clean and dry before pouring sealer into pans.

This product is moisture sensitive. Do not use a previously opened can. Open and mix only what is needed for the next one (1) hour period.

Use dry mixing tools, containers, and equipment.

Product Data:

Container Size: 2 – 3.81 Liter (1 gallon) containers per carton.
2 –.51 Liter (1 pint) containers
2 – Mixing Paddles

Coverage Rate: 0.09 m² (one (1) square feet/gallon) @ 51 mm (2" thick) can be expected.

Shelf Life: of 9 months can be expected when stored in unopened containers. Shelf life will be shortened if exposed to elevated temperatures.

Storage: Store in original unopened containers indoors. Do not store on roof in direct sunlight. When exposed to lower temperatures, restore to room temperature prior to use.

PRECAUTIONS

Refer to the Material Safety Data Sheet before using Custom Seal Pitch Pan Sealer. Observe all precautionary measures listed in the Material Safety Data Sheet.

- **AVOID CONTACT WITH EYES, SKIN, OR CLOTHING**
- **AVOID BREATHING CONCENTRATED VAPORS— USE IN A WELL-VENTILATED AREA.**
- **IF SWALLOWED DO NOT INDUCE VOMITING – CALL A PHYSICIAN IMMEDIATELY**
- **KEEP OUT OF REACH OF CHILDREN**

Custom Seal Cleaning Solvent (MEK)

Description:

Custom Seal Cleaning Solvent may be used on Custom Seal PVC Membrane before splicing when contaminants prohibit a proper weld.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Composition		Methyl Ethyl Ketone
Color	Visual	Clear
Solids	ASTM D-3168	0.0%
Viscosity	Visual	Free Flowing
Weight	ASTM D-244	18.2 kg/Pail (40 lbs/ Pail)
Flash Point	Closed Cup	-6.7° C (20° F)
Flash Point	ASTM D-1310 Open Cup	-1.1° C (30° F)

Application:

1. Apply liberal amounts of Custom Seal Cleaning Solvent to clean rag.
2. Using a scrubbing motion, remove all contaminants at least 5 cm (2") each way from the area to be spliced. Remove all visible contaminants and maintain surfaces free from all moisture, oil, and other contaminants. Change rags frequently to avoid depositing previously removed materials.
3. Allow the cleaned membrane to dry completely before seaming.

Product Data:

Container Size: 18.9 Liters (5 gallons).

Shelf Life: Shelf life of 9 months can be expected when stored at temperatures between 16°C and 27°C (60°F and 80°F) in unopened containers. Shelf life will be shortened if exposed to elevated temperatures.

Storage: Store in original unopened containers indoors. Do not store on roof in direct sunlight. When exposed to lower temperatures, restore to temperatures prior to use.

Flash Point: 6.7°C (20°F) (TCC)

Tolerance Limit:

MEK 200 parts per million in air

Precautionary Data:

This product is extremely flammable. Vapors may cause flash fires. Vapors may ignite explosively under certain conditions. Keep away from fire, sparks, and sources of heat. Open all doors and windows. Extinguish all flames and pilot lights. Turn off electronic motors, stoves, or heaters, or any source of ignition during use and until all vapors have been dispersed. Do not smoke. Close containers after use. May cause possible skin irritations. May cause allergic sensitivity in susceptible subjects.

- USE WITH ADEQUATE VENTILATION
- AVOID PROLONGED BREATHING OF VAPORS
- AVOID PROLONGED AND REPEATED CONTACT WITH SKIN
- STORE AT TEMPERATURE OF 27°C (80°F) OR BELOW FOR MAXIMUM SHELF LIFE
- KEEP OUT OR REACH OF CHILDREN
- KEEP AWAY FROM EYES
- USE CHEMICALLY RESISTANT GLOVES

Custom Seal Metal

Description:

Custom Seal Metal is a 24 Gauge metal with a PVC coating. The PVC coating enables Custom Seal PVC Membrane to be heat welded to the metal. Custom Seal Coated Metal is used as a perimeter edge metal in some Custom Seal roof systems.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color (Face)		White, Grey, Bronze
Width		122 + 1.3, -0 cm (48" + 1/2", -0)
Thickness		1 ± 0.1 mm (.042" ± .004")
Length		245 ± 1.3 cm (96 1/2" ± 1/2")
Galvanized Steel C.R.C.Q.	ASTM A-385	G-60 (interior) 0.5 ± .02 mm (.020" ± .001")
Gauge		24 Gauge
Vinyl Thickness	ASTM B-604	0.5 ± 0.08 mm (.020" ± .003") (Face)

Installation:

Custom Seal Coated Metal is used as a perimeter edge metal that Custom Seal PVC membrane is heat welded to. Custom Seal Metal can be cut on any commercial metal brake and bent into several edge metal details that can be used in approved Custom Seal details. Please consult current Custom Seal specifications and details for specific applications.

Preparation of Substrates:

1. Substrates must be clean, dry, smooth, free of sharp edges, tins, loose or foreign materials, oil, grease, and other materials which may affect the application of this product.
2. All roughened surfaces which could damage the PVC coating shall be repaired as specified to offer a smooth substrate.

3. All surface voids greater than 6 mm (1/4") wide shall be properly filled with an acceptable fill material.

Product Data:

Container Size: 10 or 20 sheets per pallet.
1.2 m x 2.4 m (4' x 8').

Storage: Store away from sources of physical damage.

Precautionary Data:

1. Take care when moving, transporting, handling, etc., to avoid sources of physical damage.
2. Isolate from prolonged exposure, waste products such as petroleum products, greases, oils (mineral and vegetable), and animal fats from the Custom Seal PVC membrane. Contact Custom Seal Roofing Systems Technical Department for specific recommendations.
3. Assure that structural decking will support the loads incurred by the material stored on roof top. The deck load limitations should be specified by the project designer.

Custom Seal Polymer Batten Strip

Description:

Custom Seal Polymer Batten Strip is to be used for the mechanical attachment of the membrane at the perimeter of the building, around certain penetrations, and for all mechanically attached Custom Seal roofing systems. Since the Custom Seal Polymer Batten Strip is a substitute for Custom Seal Metal Anchor Bars in many applications, consult the appropriate Custom Seal specification for specific installation procedures.

Physical Properties:

Material	Modified Polymer
Length	76.2 m (250') coil
Width	25.4 mm (1")
Thickness	1.27 mm (1/20")
Holes	Pre-punched 152.4 mm (6") o.c.
Continuous Use Temperature	-45.6° C to 100° C (-50° F to +212° F)
Ultimate Tensile Strength, min.	241 MPa (35,000 psi)

Installation:

1. Substrate must be free from dust, dirt, oil, water, or other contaminants.
2. Install polymer batten strip in a straight line by anchoring one end and stretching out 20 feet and anchoring again.
3. Set the fastener head flush with the Polymer Batten Strip so that the strip shows only a slight depression around the fastener head.
4. Overlap ends 1". All cut ends must be rounded.

5. Fastener placement may be varied by moving the fastener at least 2" from the hole that did not properly engage the deck. Set the fastener in the center of the strip. Drive the fastener as described above fully engaging the deck.

Application Precautions:

1. Overdriving causes the Polymer Batten Strip to kink.
2. All cut ends must be rounded.

Product Data:

Container Size: 76.2 (250') per box.

Storage: Store away from sources of physical damage. Keep Custom Seal Polymer Batten Strip in a dry, protected storage area.

Precautionary Data:

Do not use on brick, block, or concrete walls.

Custom Seal Termination Bar

Description:

Custom Seal Termination Bar is an aluminum bar that is used to keep water from entering the roofing system at parapet walls and other termination points. Please refer to current Custom Seal specifications and details for specific applications.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Material	Corrosion resistant Aluminum
Thickness	2.3 mm (0.090")
Width	32 mm (1.25")
Length	3 m (10')
Holes	Pre-punched 7 x 10 mm (0.28" x 0.38") Slotted Holes 100 mm (3.93") O.C.

Installation:

1. Substrates must be free from dust, dirt, oil, water, and other contaminants (wall areas above termination bar must not pass water). Install per current Custom Seal specifications.
2. Apply Custom Seal Waterstop behind flashing.
3. Install flat side of bar towards flashing so "lip" is facing upwards, and forms a wide reservoir for edge caulk.
4. Anchor bar through pre-punched holes at a rate to maintain a seal to the wall against waterstop.
5. Remove excess flashing material above bottom of lap sealant reservoir channel.
6. Install Custom Seal Termination Caulk into reservoir channel.
7. Consult Custom Seal Roofing Systems specifications for specifics.

Application Precautions:

1. Do not use as a bar anchor.
2. Where field cutting is necessary, remove any burrs from bar.
3. Clean up shavings, etc., that may occur from field cutting.
4. Install flat side of bar towards flashing so "lip" is facing upwards, and forms a wide reservoir for edge caulk.

5. Keep each 3 m (10') length of Custom Seal Termination Bar separated from adjoining bar by 6 mm (¼").
6. Custom Seal Termination Bars must be installed directly to the wall surface, not existing sheet metal, flashings, etc.
7. Install Custom Seal Termination Bar on hard, smooth surfaces only. Do not install on substrates where seal is lost at mortar joints, etc.
8. Install Custom Seal Termination Bar vertically where base flashing(s) end.
9. Do not install Custom Seal Termination Bar to wood or other porous surfaces.
10. At inside and outside corners, Custom Seal Termination Bar must be cut and continued.
11. Custom Seal Termination Bar must be fastened a maximum of 25 mm (1") from each end of all sections.

Product Data:

Container Size: 50 – 3 m (10') per tube.

Features:

- Custom Seal Logo on each section.
- Reservoir Channel for Termination Caulk on top.

Precautionary Data:

Precautions should be taken to avoid metal slivers, etc. Material Safety Data Sheet available upon request.

Custom Seal Walkway Pads

Description:

Custom Seal Walkway Pads are to be used wherever required by Custom Seal specifications. They may also be used, when not specified, for the protection of the Custom Seal membrane at various pressure points on the roof, such as sleepers.

Physical Properties:

PROPERTY	TEST METHOD	PHYSICAL PROPERTIES
Color		Grey
Grain		Pyramid Pattern
Pad Dimensions		762 mm x 18.3 m x 4 mm (30" x 60' x 5/32")
Thickness	ASTM D-412	4 mm (0.156")
Tensile at Break	ASTM D-412	3.4 MPa (500 psi)
Elongation at Break	ASTM D-412	100%
Tear Resistance (Die C)	ASTM D-624	43 N (95 lbs)
Tabor Abrasion	H18/500 gr/1000 rev.	2.0 gr., 0.6 mm (2.0 gr., 0.025")
Heat Aging	ASTM D-573	% of Original
-50 % Elongation	ASTM D412	± 15
-Tensile at Break	ASTM D-412	± 15
-Hardness	Shore A	+ 7
-Thickness		± 5
Weatherometer	ASTM D-750	% of Original
-Elongation at Break	ASTM D-412	± 30
-Tensile at Break	ASTM D-4220	± 25
-Hardness	Shore A	± 5
Hardness – Shore A		85 ± 5
Dimensional Stability	ASTM D-1204	± 0.2%
Specific Gravity	ASTM D-297	1.75 ± 0.03

Installation:

The owner is responsible for maintaining walkways in the following specific areas:

At all access points (ladders, hatches, doorways, etc.) to the roof. Around all mechanical equipment which will require maintenance. As a walkway system on roofs subjected to traffic more frequently than once a month.

1. It is recommended that the walkway pads be installed in sections that are not longer than 3 m (10') in length. This is recommended to prevent water damming and to allow for proper drainage.
2. Each 3 m (10') section should be separated from the next 3 m (10') section by about 51 mm (2") to allow for drainage.

All walkway pads should be kept at least 51 mm (2") from any field fabricated seams around penetrations and all roof top units.

3. The attachment of the walkway pad to the PVC membrane can be accomplished by heat welding it to the deck sheet.
4. Following these quick simple recommendations should allow for a rapid, quality installation of Custom Seal Walkway Pads.

Product Data:

Available Sizes: 762 mm x 18.3 m (30" x 60').

Storage: Store away from sources of punctures and physical damage.

Custom Seal Walkway Pads are not covered under the terms and conditions of the warranty. Custom Seal Walkway Pads are considered to be a maintenance item and are the responsibility of the building owner.

Precautionary Data:

1. Take care when moving, transporting, handling, etc., to avoid sources of punctures and physical damage.
2. Isolate waste products such as petroleum products, greases, oils (mineral and vegetable), and animal fats from the Custom Seal Walkway Pads. Contact Custom Seal Roofing Systems Technical Department for specific recommendations.
3. Assure that structural decking will support the loads incurred by the material stored on roof top. The deck load limitations should be specified by the project designer.

Custom Seal 51 mm (2") Seam Plates

Description:

Custom Seal 51 mm (2") Seam Plates are a galvanized metal disc that is used to secure Custom Seal membranes to the roof deck in Custom Seal Mechanically Attached Systems. Please refer to current Custom Seal specifications and details for specific applications.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Metal	Galvanized G-90
Diameter	5 cm (2")
Thickness	0.8 mm (0.030")
Hole Diameter	6 mm (1/4")
Edges	All Edges are Deburred

Installation:

Install Custom Seal Seam Plates in accordance with current Custom Seal specifications, details, and workmanship requirements.

Product Data:

Container Size: 1000 plates per bucket.

Storage: Store away from sources of physical damage. Keep Custom Seal 51 mm (2") Seam Plates in a dry, protected storage area.

Precautionary Data:

Custom Seal 51 mm (2") Seam Plates are manufactured from galvanized metal. Precautions should be taken to avoid metal slivers, etc.

Custom Seal 2 3/8" Barbed Seam Plate

Description:

Custom Seal Seam Plate is a 60.3 mm (2 3/8") round, metal, barbed seam plate to be used with the Custom Seal #15 Fastener. Custom Seal Seam Plates may be used to secure Custom Seal TPO and PVC membranes to the roof deck in Custom Seal TPO and PVC Mechanically Attached systems. Please refer to current Custom Seal TPO and PVC specifications and details for specific applications.

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Metal	AZ 55 Galvalume
Diameter	60.3 mm (2 3/8")
Thickness	20 Gauge
Number of Barbs	6
Edges	All Edges are Deburred
Pieces per Bucket	1,000

Product Data:

Container Size: Custom Seal Seam Plates are packaged in white plastic buckets.

Storage: Custom Seal Seam Plates must be protected from moisture and kept dry at all times. If stored out of doors, place on skids in a dry area and cover with a breathable tarp.

Precautions:

Custom Seal Seam Plates are manufactured from galvanized metal. Precautions should be taken to avoid metal slivers, etc.

Custom Seal #14 Fasteners

Description:

Custom Seal Fasteners may be used in any Custom Seal system for attachment of roofing insulation (using Custom Seal insulation plates), and attachment of Custom Seal Bar Anchors, Custom Seal Seam Plates, Custom Seal Termination Bars, Custom Seal Termination Rings, and other accessories to steel, wood, and lightweight concrete (into steel deck) substrates. Custom Seal #14 Fasteners are available in various lengths from 31.8 mm to 355.6 mm (1¼" to 14").

Custom Seal Fasteners are manufactured to conform to the physical property requirements of Factory Mutual Specification #4470.

Physical Properties:

PROPERTY	MINIMUM PERFORMANCE
Material	SAE 1022 Heat Treated
Diameter & Thread	#14 – Modified Buttruss
Head Style	#3 Phillips
Corrosion Coating	SPEX – Organic Waterborne
Fastener Tip	Patented X-Point

Installation:

Custom Seal Fastener length is determined as follows:

Steel Deck – Minimum of 25.4 mm (1") of penetration required.

Wood Deck – Minimum of 25.4 mm (1") of penetration is required.

Check current Custom Seal specifications for exceptions and/or changes.

Product Data:

Container Size:

- 38.1 mm – 152 mm (1½" - 6"): 1000 per bucket.
- 178 mm – 355.6 mm (7" – 14"): 500 per bucket.
- 304.8 mm and 355.6 mm (12" and 14") not in buckets.

Storage: Custom Seal Insulation Plates **must** be protected from moisture and kept dry at all times. If stored out of doors, place on skids in a dry area and cover with a breathable tarp.

Available Sizes:

SCREW LENGTH	THREAD LENGTH	INSULATION RANGE (TOP FLANGE)
38.1 mm (1½")	25.4 mm (1")	-----
50.8 mm (2")	44.5 mm (1¾")	Up to 25.4 mm (1")
76.2 mm (3")	69.9 mm (2¾")	12.7 mm to 50.8 mm (½" to 2")
101.6 mm (4")	69.9 mm (2¾")	31.8 mm to 76.2 mm (1¼" to 3")
127 mm (5")	95.3 mm (3¾")	38.1 mm to 101.6 mm (1½" to 4")
152.4 mm (6")	95.3 mm (3¾")	63.5 mm to 127 mm (2½" to 5")
178 mm (7")	95.3 mm (3¾")	82.6 mm to 152.4 mm (3¼" to 6")
203.2 mm (8")	95.3 mm (3¾")	108 mm to 178 mm (4¼" to 7")
254 mm (10")	95.3 mm (3¾")	158.8 mm to 228.6 mm (6¼" to 9")
304.8 mm (12")	95.3 mm (3¾")	209.5 mm to 279.4 mm (8¼" to 11")
355.6 mm (14")	95.3 mm (3¾")	254 mm to 330.2 mm (10¼" to 13")

Precautionary Data:

Eye protection is recommended when installing Custom Seal Custom Seal Fasteners.

Custom Seal #15 ROOFGRIP Fastener

Description:

Custom Seal #15 Fastener may be used with Custom Seal Polymer Batten Strip or Custom Seal Seam Plate in Custom Seal PVC, and TPO mechanically attached systems. Custom Seal #15 Fastener is available in various lengths from 31.8 mm to 355.6 mm (1¼" to 12"). Custom Seal #15 Fasteners are manufactured to conform to the physical property requirements of Factory Mutual Specification #4470. Custom Seal #15 Fastener may be used in any Custom Seal system for attachment of roofing membrane to approved steel, structural concrete, and wood decks. The fasteners are packaged in white square buckets.

Installation:

Custom Seal # Fastener length is determined as follows:

Steel Deck – Minimum of 25mm (1") of penetration required.

Wood Deck – Minimum of 25 mm (1") of penetration is required.

Concrete Deck – Minimum of 25 mm (1") of penetration is required. Predrill concrete with 5.6 mm (7/32") masonry bit. The pilot hole should be 13 mm (½") deeper than the required embedment.

Check current Custom Seal specifications for exceptions and/or changes.

Precautionary Data:

Eye protection is recommended when installing Custom Seal #15 Fastener.

Product Data:

Container Size:

Storage: Custom Seal #15 Fastener must be protected from moisture and kept dry at all times. If stored out of doors, place on skids in a dry area and cover with a breathable tarp.

Physical Properties:

FASTENER PROPERTY	FASTENER FEATURES
Material	SAE 1022 Heat Treated
Diameter	#15 – 5.2 mm (0.204")
Thread	15-13 Universal Thread
Head Style	Deep #3 Phillips with Oversized Washer Design
Head Outside Diameter	14 mm (0.550")
Corrosion Coating	SPEX™
Fastener Tip	Drill Point Design

SCREW LENGTH	THREAD LENGTH	INSULATION RANGE (top flute)
32 mm (1¼")	32 mm (1¼")	-----
51 mm (2")	51 mm(2")	Up to 25.4 mm (1")
76.2 mm (3")	76.2 mm (3")	12.7 mm to 50/8 mm (½" to 2")
101.6 mm (4")	70 mm (2 ¾")	31.8 mm to 76.2 mm (1 ½" to 4")
127 mm (5")	95.3 mm (3¾")	63.5 mm to 127 mm (2½" to 5")
178 mm (7")	95.3 mm (3¾")	82.6 mm to 152.4 mm (3¼" to 6")
203.2 mm (8")	95.3 mm (3¾")	108 mm to 178 mm (4¼" to 7")
254 mm (10")	95.3 mm (3¾")	158.8 mm to 228.6 mm (6 ¼" to 9")
304.8 mm (12")	95.3 mm (3¾")	209.5 mm to 279.4 mm (8¼" to 11")

Typical Pull Out Values

Metal:

Gauge	Pounds
18	1323
20	928
22	690
24	586
26	403

Plywood:

Thickness	Pounds
9.5 mm (3/8")	429
13 mm (½")	528
19 mm (¾")	645

Wood Plank:

Depth	Pounds
25.4 mm (1")	863
31.8 mm (1¼")	984
38.1 mm (1½")	1410

Concrete: 3000 psi

Thickness	Pounds
25.4 mm (1")	1009
31.8 mm (1¼")	1364
38.1 mm (1½")	1870

Custom Seal #15 XHD

Description:

Custom Seal #15 XHD™ Fasteners and Seam Plates may be used in place of loose Custom Seal #15 XHD™ Screws and XHD™ Seam Plates. Custom Seal #15 XHD™ Fasteners and Seam Plates are to be used for the attachment of Custom Seal TPO or PVC membranes to Steel or Wood substrates. Custom Seal #15 XHD™ Fasteners and Seam Plates are available in various lengths from 51 mm to 305 mm (2" to 12").

Custom Seal #15 XHD™ Fasteners and Seam Plates are manufactured to conform to the physical property requirements of Factory Mutual Specification #4470.

SCREW LENGTH	THREAD LENGTH	INSULATION RANGE (TOP FLANGE)
51 mm (2")	Full	Up to 25.4 mm (1")
76 mm (3")	Full	Up to 51 mm (2")
102 mm (4")	76 mm (3")	25.4 mm to 76 mm (1" to 3")
127 mm (5")	102 mm (4")	25.4 mm to 102 mm (1" to 4")
152 mm (6")	102 mm (4")	51 mm to 127 mm (2" to 5")
178 mm (7")	102 mm (4")	76 mm to 152 mm (3" to 6")
203 mm (8")	102 mm (4")	102 mm to 178 mm (4" to 7")
254 mm (10")	102 mm (4")	152 mm to 228.6 mm (6" to 9")
305 mm (12")	102 mm (4")	203 mm to 279.4 mm (8" to 11")

Physical Properties:

FASTENER PROPERTY	FASTENER MINIMUM PERFORMANCE
Material	SAE 1022 Heat Treated
Diameter & Thread	Oversized Buttnut
Head Style	#3 Phillips
Corrosion Coating	CR-10
Fastener Tip	Reduced Diameter Drill Point

SEAM PLATE PROPERTY	SEAM PLATE PHYSICAL PROPERTIES
Metal	AZ55 Galvanized Steel
Diameter	6.03 cm (2 3/8")
Thickness	0.9 - 1.1 mm (0.036" - 0.042")
Hole Diameter	6 mm (1/4")
Edges	All Edges Are Deburred

Installation:

To determine the proper fastener lengths allow the Custom Seal #15 XHD™ Fastener to penetrate the steel deck by a minimum of 25.4 mm (1"). Check current Custom Seal specifications for exceptions and/or changes.

Product Data:

Container Size: 250 pieces per bucket.

Storage: Custom Seal #15 XHD™ Fasteners **must** be protected from moisture and kept dry at all times. If stored out of doors, place on skids in a dry area and cover with a breathable tarp.

Precautionary Data:

Eye protection is recommended when installing Custom Seal #15 XHD™ Fasteners.

Custom Seal CD-10™ Concrete Fasteners

Description:

Custom Seal CD-10™ Concrete Fasteners is a hammer-in, non-threaded fastener designed to secure insulation and membranes to structural concrete. Custom Seal Concrete fasteners may be used in any Custom Seal system for attachment of roofing insulation (using Custom Seal Insulation Plates), and attachment of Custom Seal Bar Anchors, Custom Seal Seam Plates, Custom Seal Termination Bars, Custom Seal Termination Rings, and other accessories to structural concrete.

Custom Seal CD-10™ Fasteners are available in various lengths from 51 mm (2") to 305 mm (12"). Custom Seal CD –10™ Fasteners are manufactured to conform to the physical property requirements of Factory Mutual Specification #4470.

FASTENER LENGTH	INSULATION RANGE
51 mm (2")	Up to 25.4 mm (1")
63 mm (2½")	Up to 38 mm (1½")
76.2 mm (3")	Up to 51 mm (2")
88.9 mm (3½")	Up to 63 mm (2½")
101.6 mm (4")	Up to 76.2 mm (3")
114.3 mm (4½")	Up to 88.9 mm (3½")
127 mm (5")	Up to 101.6 mm (4")
139.7 mm (5½")	Up to 114.3 mm (4½")
152 mm (6")	Up to 127 mm (5")
178 mm (7")	Up to 152 mm (6")
203 mm (8")	Up to 178 mm (7")
228.6 mm (9")	Up to 203 mm (8")
254 mm (10")	Up to 288.6 mm (9")
279.4 mm (11")	Up to 254 mm (10")
305 mm (12")	Up to 279.4 mm (11")

Physical Properties:

PROPERTY	PHYSICAL PROPERTIES
Material	Hard Carbon Steel
Diameter	7 mm (0.265)
Head Style	Flat Top Pan
Corrosion Coating	CR-10
Fastener Tip	Split Bulb

Precautionary Data:

Eye protection is recommended when installing Custom Seal CD-10 Fasteners.

Installation:

Drill a pilot hole using a 5.5 mm (7/32") drill bit. The depth of the pilot hole must be 13 mm (1/2") deeper than the fastener embedment.

On **Structural Concrete Deck** a minimum of 25 mm (1") of penetration is required.

Check current Custom Seal specifications for exceptions and/or changes.

Product Data:

Container size: 500 per bucket

Storage: Custom Seal CD-10™ Fasteners must be protected from moisture and kept dry at all times. If stored outdoors, place on skids in a dry area and cover with a breathable tarp.

Custom Seal Zinc Masonry Anchor

Description:

Custom Seal Zinc Masonry Fasteners are designed to attach termination bar to concrete or masonry walls. Custom Seal Zinc Masonry Fasteners have a one piece expansion body and drive pin.

Physical Properties:

PROPERTY	MINIMUM PERFORMANCE
Material	Zinc Plated Steel
Diameter	6 mm (¼ ")
Length	44 mm (1¾")

Installation:

Pre-drill a 6.0 mm (¼") diameter x 44 mm (1¾") pilot hole using a carbide tip SDS or straight shank drill bit. The fastener is then installed with a hammer. Minimum embedment should be ¾" into the wall.

Check current Custom Seal specifications for exceptions and/or changes.

Product Data:

Container Size: 1000 per bucket.

Storage: Custom Seal Zinc Masonry Fasteners **must** be protected from moisture and kept dry at all times. If stored out of doors, place on skids in a dry area and cover with a breathable tarp.

Precautionary Data:

Eye protection is recommended when installing Zinc Anchor.