Sika Sarnafil

World Class Roofing and Waterproofing

WATERPROOFING TECHNICAL BULLETIN #04-12

To: Authorized Waterproofing Applicators
Sika Sarnafil Sales Staff & Sales Representatives
Sika Sarnafil Regional Technical Staff
Sika Sarnafil Customer Service Staff
Sika Sarnafil Services Staff
Sika Sarnafil Marketing
Waterproofing Consultants

From: Technical Service Department

Date: November 14, 2012

Subject: Waterproofing Systems Installation Instructions

The following waterproofing technical bulletin outlines installation instructions for the Sika Sarnafil G476 Self-Adhered, Grid, and Loose-Laid waterproofing systems. This replaces previously announced technical bulletins outlining installation instructions for the systems listed.

Attachments:

- G476 Self-Adhered Membrane Installation Instructions
- Grid System Installation Instructions
- Loose-Laid Membrane Installation Instructions

These attachments will also be available on our website for downloading under the Partners Club as our Waterproofing Installation Instructions Guide.

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Sika Sarnafil Waterproofing 10-26-12
G476 Self-Adhered Membrane Installation Instructions Page 1 of 7

General

1. This document does not address every aspect of installation. A waterproofing training class is required for all personnel who have not been trained or have not undergone training within one year of their next Sika Sarnafil waterproofing project.

2. Prior to installation, the applicator must read and understand the "Quality Assurance Procedures for Self-Adhered Membrane Applications", and follow them throughout the project.

3. Apply G476 SA membrane only to clean, smooth, dry substrates. Minimum application temperature for G476 SA membrane is 40° F (4° C) when Surface Conditioner 150 is used and 25° F (-4° C) when Sarnavap Self-Adhered Primer is used. See surface conditioner/primer requirements and temperature limitations below.

4. The basic application technique is shown in this document. Variations of the installation technique may exist.

5. Consult Sika Sarnafil Specifications, Details, Technical Bulletins, and Product Data Sheets for additional information and requirements.

Surface Conditioner/Primer Application

1. Use as received. Do not dilute.

2. The substrate must be free of laitance, dirt, dust, debris, oils and other contaminants. Spalled or damaged concrete must be repaired prior to coating.

3. Apply evenly to a clean, dry, frost-free substrate.

4. Allow to dry completely prior to the installation of the membrane. Drying time will vary depending on temperature and humidity. Remove all heavy or puddled areas to ensure thorough drying.

5. Reapply if rain occurs prior to application of the membrane or if substrate becomes dusty.

6. Apply only as much that can be covered with membrane on the same day. Reapplication is required if the substrate is not covered the same day with membrane.

A. Surface Conditioner 150 (water-based) – for use on concrete and masonry only

1. **Do not apply surface conditioner during periods of inclement weather or when ambient or substrate temperatures are below 40° F (4° C). Temperature must be 40° F (4° C) and rising for surface conditioner application.**

2. Surface Conditioner 150 (SC 150) must be applied to all horizontal and vertical concrete and masonry substrates to receive G476-15 SA membrane.

3. Apply Surface Conditioner 150 using a standard pump/air sprayer with a fan or cone tip nozzle at a rate of 800 – 1000 ft^2/gallon (20 – 25 m^2/liter). Surface Conditioner 150 may also be roller applied if spraying is not practical. Use a heavy nap roller cover and spread conditioner evenly over the substrate.
   a. Note: The coverage rate will be reduced considerably when this method is used.

B. Sarnavap Self-Adhered Primer (solvent-based) – For use on all acceptable substrates.

1. **Do not apply Sarnavap Self-Adhered Primer during periods of inclement weather or when ambient or substrate temperatures are below 25° F (-4° C). Temperature must be 25° F (-4° C) and rising for Sarnavap Self-Adhered Primer application.**

2. Sarnavap Self-Adhered Primer (SA Primer) must be applied to all horizontal and vertical concrete, masonry, DensDeck Prime, and plywood (flashing only) substrates to receive G476-15 SA membrane.

3. Sarnavap Self-Adhered Primer must be well shaken before use. Sarnavap SA Primer may be spray or roller applied. Apply at a rate of 0.74 - 1.22 gal/sq (0.3 - 0.5 L/m^2) for porous surfaces and 0.25 - 0.61 gal/sq (0.1 - 0.25 L/m^2) for non-porous surfaces.

G476 SA Membrane, Surface Conditioner, and Primer Application Requirements Quick Reference Chart

G476 SA Membrane/Surface Conditioner/Primer Requirements & Application Temperatures			
Substrate	40° F (4° C) and Above	25° F(-4° C) and Above	QA Adhesion Test Required?
Concrete/Masonry	Surface Conditioner 150 or Sarnavap SA Primer	Sarnavap SA Primer	Yes
Plywood – Flashing Substrate Only	Not Required	Sarnavap SA Primer	No
DensDeck Prime	Not Required	Sarnavap SA Primer	No

G476 Self-Adhered Membrane

1. Unroll approximately 6 - 8 feet (1.8 m - 2.4 m). Use the unrolled portion of the sheet to align and position the G476 SA membrane on the substrate. For subsequent sheets, overlap the adjacent sheet with the selvedge (Photo 1). Be certain to tightly butt the foam backing of adjoining sheets. Check under the selvedge along the 6 - 8 feet (1.8 m - 2.4 m) of overlap for foam to foam contact and correct alignment (Photo 2). The foam backing should not overlap onto the adjacent membrane, nor should there be a gap between the foam backing of adjacent sheets. If either of these conditions exist, reposition the sheet to properly butt the two foam backings.

Photo 1

Photo 2

2. Once the sheet is properly aligned, pull back the 6 - 8 feet (1.8 m - 2.4 m) of the unrolled portion of the membrane back over the roll to expose the underside. Carefully cut the release liner across the width of the roll and remove it from the foam backing (Photos 3 & 4). Insure that the sheet remains properly aligned.

Photo 3

Photo 4

3. Place the membrane with the release liner removed onto the substrate using care not to disrupt the alignment (Photo 5). Roll the 6 - 8 feet (1.8 m - 2.4 m) of adhered membrane immediately into place.

4. Pull the roll back onto the adhered portion of the sheet until the end of the release liner is visible and accessible (Photo 6).

Photo 5

Photo 6

5. Begin to slowly remove the release liner in the direction of the membrane application as the remainder of the sheet is carefully unrolled (Photo 7).

6. Roll the membrane thoroughly in both directions with a minimum 100 lb. linoleum roller to assure bond to the substrate (Photo 8).

7. Repeats steps 1 - 6 above for additional sheets.

Photo 7

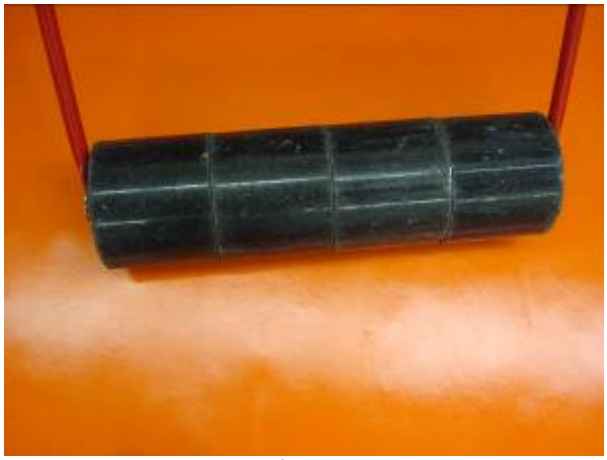

Photo 8

8. Use a min. 8 inch (20.3 cm) wide, 60-mil thick cover strip where membranes meet at end laps and all non-selvedge edges. Butt adjoining sheets closely, center the cover strip over both membranes and hot-air weld. Do not overlap foam backing onto membrane.

9. Hot-air weld all membrane overlaps according to Sika Sarnafil specifications and instructions.

10. Patch all “T”- joints with Sarnacircle-G (4 inch dia. patch) or a min. 4 inch patch made from maximum 60-mil Sarnafil membrane.

11. Complete all flashing according to Sika Sarnafil specifications, flashing installation instructions, and details.

The G476 SA membrane must be covered with subsequent layers for protection once electronic leak detection testing has been completed and it has been inspected by a Sika Sarnafil Technical Service Representative (not required for a Membrane Warranty). **FOR A STANDARD, SYSTEM, OR SINGLE-SOURCE WARRANTY, DO NOT COVER THE MEMBRANE UNLESS A SIKA SARNAFIL TECHNICAL SERVICE REPRESENTATIVE HAS ACCEPTED THE INSTALLATION IN WRITING (Inspection for Warranty Report Form).**

Flashing Installation Using G476 Self-Adhered Membrane

1. Apply surface conditioner or primer to vertical surfaces, based on temperature restrictions and substrate as outlined in section 1, prior to membrane application. Allow surface conditioner or primer to dry completely prior to installing the membrane.

2. G476 SA membrane field sheet should be applied continuously from the horizontal to the vertical flashing substrate wherever possible. Work the membrane into corners as tightly as possible to minimize bridging. Folding the membrane and then applying pressure to form a crease can help to contour the membrane into the corner (Photos 9 & 10).

Photo 9

Photo 10

3. Cut flashing membrane to a workable length. Adjacent sheets of self-adhesive membrane must be overlapped using the selvedge, or non-selvedge sheets are butted closely. Never overlap the foam backing with pressure sensitive adhesive onto the top of the adjacent membrane. Press the bonded membrane firmly into place with a hand roller.

4. Hot-air weld all membrane overlaps. Use a min. 8 inch (20.3 cm) wide, 60-mil thick cover strip where flashing membranes meet at end laps, butt joints, and all non-selvedge edges. Butt adjoining sheets closely, center the cover strip over both membranes and hot-air weld. Complete all inside and outside corner flashing details to a 100% water tight condition. Finish with a prefabricated inside/outside corner over the completed detail.

5. Complete all flashing terminations according to Sika Sarnafil approved details.

Flashing Installation Using Standard Bareback Membrane and Sarnacol 2170 or 2170 VC Adhesive

1. Install flashing membrane according to the applicable Sika Sarnafil details.

2. Using a solvent-resistant paint roller, apply the adhesive to the properly prepared substrate. Apply the adhesive at a rate of approximately 1-1/2 to 1-3/4 gallons per 100 square feet (0.6 - 0.7 liters/sq. m) of surface depending upon the substrate. Consult Product Data Sheet for exact application rate. Apply the adhesive in a smooth, even coating with no holidays, globs, puddles or similar irregularities. Coat only an area which can be completely covered with flashing membrane in the same day's operation. Allow the adhesive to dry completely before proceeding to the next step.

3. Drying time increases with cooler temperatures and on days of high humidity because of slow evaporation of the solvent.

4. When the adhesive on the substrate is dry, coat the underside of the flashing membrane with adhesive at a rate of 1/2 gallon per 100 sq. ft. (0.2 liter/sq. m). When the adhesive has dried sufficiently to produce strings when touched with a dry finger (Photo 11), the coated membrane shall be rolled onto the previously-coated substrate being careful to avoid wrinkles. Do not allow adhesive on the underside of the membrane to completely dry. Do not apply adhesive in the seam area.

Photo 11

5. The amount of membrane that can be coated with adhesive before applying to the substrate will be determined by ambient temperature, humidity, and manpower. Overlap the adjacent flashing sheet a minimum of 4 inches (10.2 cm). Extend the flashing membrane a minimum of 5 inches (12.7 cm) on to the field sheet. Press the bonded membrane firmly into place with a hand roller.

6. Hot-air weld the flashing to the field sheet.

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Grid System Installation Instructions **Page 1 of 10**

General

1. This document does not address every aspect of installation. A waterproofing training class is required for all personnel who have not been trained or have not undergone training within one year of their next Sika Sarnafil waterproofing project.

2. Prior to installation, the applicator must read and understand the Sika Sarnafil "Quality Assurance Procedures for Grid System Applications," and follow them throughout the project.

3. Apply grid strips to only clean, smooth, dry substrates.

4. Sikaflex-11FC grid adhesive can be used for both horizontal and vertical applications.

5. Install grid strips in accordance with layout shown on the design drawings and approved shop drawings.

6. Consult Sika Sarnafil Specifications, Details, Technical Bulletins, and Product Data Sheets for additional information.

Grid Strip Application

1. Do not proceed with grid strip installation until a successful adhesion peel test has been achieved. See Sika Sarnafil "Quality Assurance Procedures for Grid System Application."

2. Chalk lines onto the substrate 12 inches wide to identify the grid location.

3. Prime the back of the G459 grid strip membrane with a light coat of Sikaflex Primer 449 using a brush, rag, or roller (Photos 1 & 2). Allow the primer to dry completely prior to setting the grid strip into the grid adhesive. **Do not put primer where grid strip overlaps will be hot-air welded.** See the Sikaflex Primer 449 Product data Sheet and MSDS for more information.

Photo 1

Photo 2

4. Apply Sikaflex-11FC grid adhesive to the properly prepared substrate. The substrate surface must be smooth, clean and dry. Sharp ridges or other projections above the surface must be removed before waterproofing. See Sika Sarnafil specifications for more information.

Gun the adhesive onto the substrate between the chalk lines with a caulk gun (Photo 3) and trowel using a 3/16" x 5/32" V-notched trowel (Photo 4). An electric caulk gun is recommended for more efficient application. Then use the flat side of the trowel to flatten the adhesive to a uniform thickness of approximately 1/8" and to eliminate air pockets in the adhesive. **Do not allow adhesive to skin over prior to placement of the grid strip.** Sikaflex-11FC is a moisture-cure polyurethane adhesive. **Pot-life is greatly reduced in warm, humid conditions.** See the Sikaflex-11FC Product Data Sheet and MSDS for additional information.

Photo 3


Photo 4

Once the Sikaflex-11FC grid adhesive is applied to the substrate, **immediately** set the grid strip into the adhesive and thoroughly roll-in with a hand roller (Photos 5). Be sure that a small amount of adhesive extends out from the edge to assure 100% coverage under the grid strip.


Photo 5

6. When making grid strip overlaps, pre-welding (welding the overlap before the membrane is set into the adhesive) is required. Stop grid strip adhesive application about 3 ft. from **all** overlap locations. Position overlapping membranes. Overlap is 3" wide. Do not apply primer in the overlap area.

7. Flip both pieces over and, starting on the underside, **completely and fully** weld the overlap (Photo 6). Flip the membrane back over and finish the solid weld of the overlap on the top side of the membrane (Photo 7), and thoroughly probe the weld area. The objective is to have a monolithic strip of membrane set into a continuous bed of adhesive. Voids in the grid strip may result if this procedure is not followed.

Photo 6

Photo 7

8. Fold the welded area back and continue with the priming and adhesive application process (Photo 8). Place finished overlap into adhesive and roll into place (Photo 9).

Photo 8

Photo 9

Sarnabar-SS (Stainless Steel) Installation

1. Install Sarnabar through the grid strip according to Sika Sarnafil details or stamped shop drawings. Install the bar approximately 1 inch away from vertical surfaces. Install a 4 inch wide protective membrane tab at bar joints and ends prior to fastening. Fasten Sarnabar 12 inches on center using drive-pin fasteners with stainless steel pins. Space adjacent bars approximately ½ inch apart (Photo 10). Hold bar back 8 – 12 inches from inside and outside corners to facilitate hot-air welding and installation of the corner detail (Photo 11).

Photo 10

Photo 11

2. Fold protective membrane tabs over the top of the bar and hot-air weld (Photo 12). Hot-air weld Sarnacord at the outside edge of the bar using the special tip (Photo 13).

Photo 12

Photo 13

Leveling Layer Application

1. Bare concrete substrates - Install Sarnafelt NWP-HD over the substrate and overlap side and end laps a minimum of 4 inches (Photo 14). Bring the edge of the NWP-HD even with the inside edge of the grid strip (Photo 15). Do not overlap NWP-HD onto the grid strip membrane. Cut the Sarnafelt NWP-HD with scissors only. **Cutting it with a hand welder creates a hard crystallized edge that can abrade the membrane and is not allowed.**

Photo 14

Photo 15

2. Substrates with existing adhered waterproofing product – Remove a minimum 16 inch wide area of the existing product at the location of the 12 inch wide grid strip (Photo 16). Wider grid strip areas will require additional width of removal. Install grid strip. Installation of a grounding layer (Vector Mapping Grid (VMG™)) will be required for electronic leak detection testing. Follow the "Vector Mapping Grid (VMG™) Installation Procedure" for installation (Photo 17). Install Sarnafelt NWP-HD over the Vector Mapping Grid as described above. (Refer to Sika Sarnafil Grid System specifications for installation of Sarnavap-10 polyethylene sheet over coal tar pitch, prior to subsequent layers.)

Photo 16

Photo 17

G476 Membrane Installation

1. Unroll G476 membrane over Sarnafelt NWP-HD, overlap adjacent sheets a minimum of 3 inches and hot-air weld. Overlap G476 membrane onto grid strips a minimum of 4 inches and hot-air weld. The second layer (middle layer) of membrane of all T-joints formed with membrane greater than 60-mils in thickness must be shaved down to create a smooth transition for the top layer of membrane prior to hot-air welding. This can be accomplished using either a chamfering tool (Photos 18) or by gently removing the edge with a heat gun (Photo 19). The chamfer should be approximately 1 inch long and extend beyond the edge of the top membrane no more than 1/8 inch.

Photo 18

Photo 19

2. Once the chamfer is made, complete the T-joint by hot-air welding (Photos 20 & 21).

Photo 20

Photo 21

3. Hot-air weld a minimum 4 inch (10.2 cm) round or square patch of maximum 60 mil thick membrane over the center of the T-joint intersection. The edges of the middle and top layer of membrane forming the T-joint must be chamfered to provide a smooth transition for the patch. Mark the location of the patch over the center of the T-joint (Photo 22). Gently shave the membrane edges that will contact the patch to create a beveled edge using one of the two methods described above (Photo 23).

Photo 22

Photo 23

4. Hot-air weld the patch over the T-joint (Photo 24).

Photo 24

Flashing Installation

1. Install flashing membrane according to the applicable Sika Sarnafil details.

2. Using a solvent-resistant paint roller, apply Sarnacol 2170 or Sarnacol 2170 VC adhesive to the properly prepared substrate. Apply the adhesive at a rate of approximately 1-1/2 to 1-3/4 gallons per 100 square feet (0.6 - 0.7 liters/sq. m) of surface depending upon the substrate. Consult Product Data Sheet for exact application rate. Apply the adhesive in a smooth, even coating with no holidays, globs, puddles or similar irregularities. Coat only an area which can be completely covered with flashing membrane in the same day's operation. Allow the adhesive to dry completely before proceeding to the next step.

3. Drying time increases with cooler temperatures and on days of high humidity because of slow evaporation of the solvent.

4. When the adhesive on the substrate is dry, coat the underside of the flashing membrane with adhesive at a rate of 1/2 gallon per 100 sq. ft. (0.2 liter/sq. m). When the adhesive has dried sufficiently to produce strings when touched with a dry finger (Photo 25), the coated membrane shall be rolled onto the previously-coated substrate being careful to avoid wrinkles. Do not allow adhesive on the underside of the membrane to completely dry. Do not apply adhesive in the seam area.

Photo 25

5. The amount of membrane that can be coated with adhesive before applying it to the substrate will be determined by drying conditions (i.e. ambient temperature and humidity). Overlap the adjacent flashing sheet a minimum of 4 inches (10.2 cm). Extend the flashing membrane a minimum of 5 inches (12.7 cm) on to the field sheet. Press the bonded membrane firmly into place with a hand roller.

6. Hot-air weld the flashing to the grid strip. Hot-air weld all inside/outside corner details as required (Photos 26 & 30). For membranes greater than 60-mils thick, chamfer the bottom membrane where membrane overlaps cross using either of the methods described above (Photos 27 & 31). Finish welding the detail (Photos 28 & 32), then weld a prefabricated inside/outside corner over the completed detail (Photos 29 & 33).

Photo 26

Photo 27

Photo 28

Photo 29


Photo 30


Photo 31


Photo 32


Photo 33

The G476 membrane must be covered with subsequent layers for protection once electronic leak detection testing has been completed and it has been inspected by a Sika Sarnafil Technical Service Representative (not required for a Membrane Warranty). **FOR A STANDARD, SYSTEM, OR SINGLE-SOURCE WARRANTY, DO NOT COVER THE MEMBRANE UNLESS A SIKA SARNAFIL TECHNICAL SERVICE REPRESENTATIVE HAS ACCEPTED THE INSTALLATION IN WRITING (Inspection for Warranty Report Form).**

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Loose-Laid Membrane Installation Instructions Page 1 of 7

General

1. This document does not address every aspect of installation. A waterproofing training class is required for all personnel who have not been trained or have not undergone training within one year of their next Sika Sarnafil waterproofing project.

2. Prior to installation, the applicator must read and understand the Sika Sarnafil "Quality Assurance Procedures for Loose-Laid Membrane Applications," and follow them throughout the project.

3. Consult Sika Sarnafil Specifications, Details, Technical Bulletins, and Product Data Sheets for additional information.

Leveling Layer Application

1. Install Sarnafelt NWP-HD over the properly prepared substrate and overlap side and end laps a minimum of 4 inches (Photos 1 & 2). Cut the Sarnafelt NWP-HD with scissors only. **Cutting it with a hand welder creates a hard crystallized edge that can abrade the membrane and is not allowed.**

Photo 1

Photo 2

2. Non-conductive decks or deck with existing adhered waterproofing product to remain – Installation of a grounding layer will be required for electronic leak detection testing. Follow the "Vector Mapping Grid® (VMG™) Installation Procedure" for installing the grounding layer. Install Sarnafelt NWP-HD over the Vector Mapping Grid as described above. (Refer to Sika Sarnafil Loose-Laid System specifications for installation of Sarnavap-10 polyethylene sheet over coal tar pitch, prior to subsequent layers.)

G476 Membrane Installation

1. Unroll G476 membrane over Sarnafelt NWP-HD, overlap adjacent sheets a minimum of 3 inches and hot-air weld. The second layer (middle layer) of membrane of all T-joints formed with membrane greater than 60-mils in thickness must be shaved down to create a smooth transition for the top layer of membrane prior to hot-air welding. This can be accomplished using either a chamfering tool (Photo 3) or by gently removing the edge with a heat gun (Photo 4). The chamfer should be approximately one inch long and extend beyond the edge of the top membrane no more than 1/8 inch.

Photo 3

Photo 4

2. Once the chamfer is made, complete the T-joint by hot-air welding (Photos 5 & 6).


Photo 5


Photo 6

3. Hot-air weld a minimum 4 inch (10.2 cm) round or square patch of maximum 60 mil thick membrane over the center of the T-joint intersection. The edges of the middle and top layer of membrane forming the T-joint must be chamfered to provide a smooth transition for the patch. Mark the location of the patch over the center of the T-joint (Photo 7). Gently shave the membrane edges that will contact the patch to create a beveled edge using one of the two methods described above (Photo 8). Hot-air weld the patch over the T-joint (Photo 9).


Photo 7


Photo 8


Photo 9

Sarnabar-SS (Stainless Steel) Installation

1. Install Sarnabar at all curbs, penetrations, and walls, according to Sika Sarnafil details. Install the bar approximately 1 inch away from vertical surfaces. Install a 4 inch wide protective membrane tab at bar joints and ends prior to fastening. Fasten Sarnabar 12 inches on center using drive-pin fasteners with stainless steel pins. Space adjacent bars approximately ½ inch apart (Photo 10). Hold bar back 8 – 12 inches from inside and outside corners to facilitate hot-air welding and installation of the corner detail (Photo 11).


Photo 10


Photo 11

2. Fold protective membrane tabs over the top of the bar and hot-air weld (Photo 12). Hot-air weld Sarnacord at the outside edge of the bar using the special tip (Photo 13).


Photo 12


Photo 13

Flashing Installation

1. Install flashing membrane according to the applicable Sika Sarnafil details.

2. Using a solvent-resistant paint roller, apply Sarnacol 2170 or Sarnacol 2170 VC adhesive to the properly prepared substrate. Apply the adhesive at a rate of approximately 1-1/2 to 1-3/4 gallons per 100 square feet (0.6 - 0.7 liters/sq. m) of surface depending upon the substrate. Consult Product Data Sheet for exact application rate. Apply the adhesive in a smooth, even coating with no holidays, globs, puddles or similar irregularities. Coat only an area which can be completely covered with flashing membrane in the same day's operation. Allow the adhesive to dry completely before proceeding to the next step.

3. Drying time increases with cooler temperatures and on days of high humidity because of slow evaporation of the solvent.

4. When the adhesive on the substrate is dry, coat the underside of the flashing membrane with adhesive at a rate of 1/2 gallon per 100 sq. ft. (0.2 liter/sq. m). When the adhesive has dried sufficiently to produce strings when touched with a dry finger (Photo 14), the coated membrane shall be rolled onto the previously-coated substrate being careful to avoid wrinkles. Do not allow adhesive on the underside of the membrane to completely dry. Do not apply adhesive in the seam area.

Photo 14

5. The amount of membrane that can be coated with adhesive before applying to the substrate will be determined by ambient temperature, humidity, and manpower. Overlap the adjacent flashing sheet a minimum of 4 inches (10.2 cm). Extend the flashing membrane a minimum of 5 inches (12.7 cm) on to the field sheet. Press the bonded membrane firmly into place with a hand roller.

6. Hot-air weld the flashing to the field sheet. Hot-air weld all inside/outside corner details as required (Photos 15 & 19). For membranes greater than 60-mils thick, chamfer the bottom membrane where membrane overlaps cross using either of the methods described above (Photos 16 & 20). Finish welding the detail (Photos 17 & 21), then weld a prefabricated inside/outside corner over the completed detail (Photos 18 & 22).


Photo 15


Photo 16


Photo 17


Photo 18

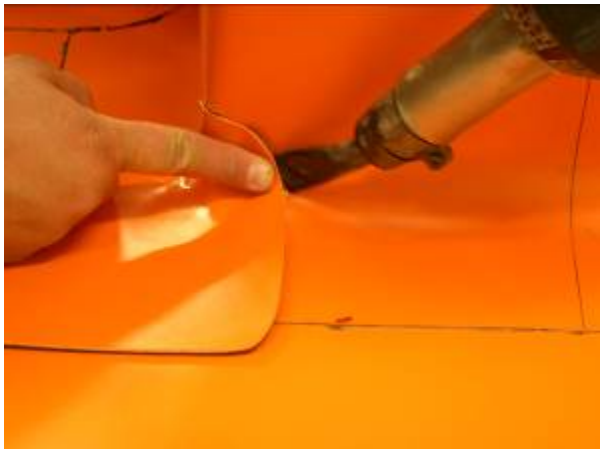
Photo 19


Photo 20


Photo 21

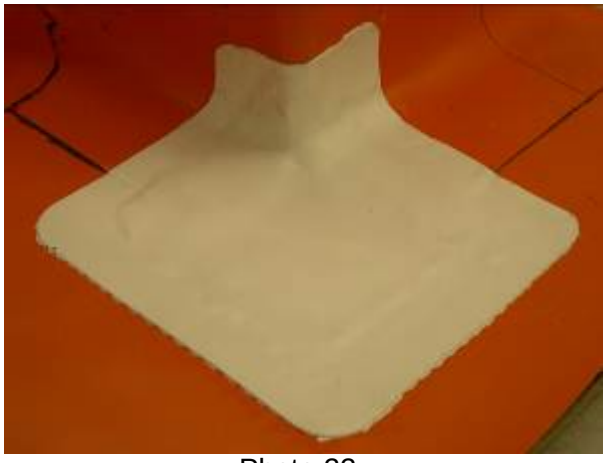
Photo 22

The G476 membrane must be covered with subsequent layers for protection once electronic leak detection testing has been completed and it has been inspected by a Sika Sarnafil Technical Service Representative (not required for a Membrane Warranty). **FOR A STANDARD, SYSTEM, OR SINGLE-SOURCE WARRANTY, DO NOT COVER THE MEMBRANE UNLESS A SIKA SARNAFIL TECHNICAL SERVICE REPRESENTATIVE HAS ACCEPTED THE INSTALLATION IN WRITING (Inspection for Warranty Report Form).**