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LIQUID-APPLIED ROOFING AND
WATERPROOFING

SECTION 07560
LIQUID-APPLIED ROOFING
(OVER COVER BOARDS)

PART 1 GENERAL

1.1 DESCRIPTION

This specification is designed specifically for the application of the MonoSeal Membrane System over the following substrates:

1. ISO (Polyisocyanurate),
2. EPS (Expanded Polystyrene),
3. Gypsum Fiber Roof Boards (DensDeck, Securock, etc.)
4. Plywood (exterior B/C grade, non-treated).

1.2 DESCRIPTION OF LIQUID-APPLIED ROOF SYSTEMS

The liquid-applied roofing system shall consist of a reinforced elastomeric system specifically designed for use on a roof. The system must have approval by FMRC (Factory Mutual Research Corporation) according to Standard 4470 for Class 1 Roof Constructions which includes- Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications.

1.3 SECTION INCLUDES

This specification incorporates the application of substrate suitable primers and the installation of the liquid-applied flexible acrylic waterproofing system over a range of existing roofing systems. This work shall include the preparation of the existing substrate, application of the primer(s), application of the new roofing and waterproofing system, the detail work flashing system, and final clean-up.

1.4 RELATED WORK

The contractor shall review all sections of these specifications to determine items of

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work that will interface with the application of this roofing system. Coordination and execution of related sections shall be the responsibility of the contractor.

1.5 REFERENCES

1. ASTM B117 - Test Method of Salt Spray (Fog) Testing.
2. ASTM G-29 - Test Methods for Algae Resistance.
3. ASTM E-108 - Test Method for Fire Test of Roof Coverings.
4. ASTM D-1653 - Water Vapor Transmission of Materials.
5. ASTM G26 - Practice for Operating Light- and Water-Exposure Apparatus for exposure of Nonmetallic Materials.
6. ASTM D-412 - Ultimate Tensile Strength at Break.
7. ASTM D-6083 - Standard Specification for Liquid Applied Acrylic Coatings used in roofing.
8. ASTM C1549 - Standard test method for determination of solar reflectance near ambient temperature using a portable solar reflectometer
9. ASTM C1371 - Standard test method for determination of emittance of materials near room temperature using portable emissometers
10. FM 4470 - Standard for Class 1 Spread of Flame Fire, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications

1.6 SUBMITTALS

1. Shop Drawings: Submit drawings showing the layout of joint reinforcing and all flashing details, including edges, closures, penetrations, etc.
2. Product Data: Provide AguaSeal Acquisition, LLC (AguaSeal) technical data for each of the products that comprise the whole roofing and waterproofing system.
3. Manufacturer's Installation Instructions: Provide technical data and application instruction sheets from AguaSeal for the total scope of work regarding the specific project.
4. Verify field measurements and submit materials list, including quantities, to be applied to achieve specified membrane thickness.
5. Manufacturer's Certificate: Provide Certification that each of the products to be utilized meet or exceed specified requirements.

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1.7 QUALIFICATIONS

1. **Applicator Qualifications:** AguaSeal shall have sole discretion, including the right of refusal to disqualify, regarding the qualifications of the proposed applicator of any AguaSeal products specified for the project. Minimum requirements for approval of Applicators for the specified project are 3 years known and documented history of successful application of liquid-applied waterproofing systems.
2. Approved Applicators will also have necessary and documented experience in the application of liquid-applied waterproofing systems on roofs of a similar size and scale as specified for this project.
3. Proof of this qualification shall be provided, if and as necessary, in written form by AguaSeal.

1.8 QUALITY CONTROL

1. **Codes and Standards:** The contractor shall be required to be familiar and acquainted with the building codes, regulations, and standards governing the specified project.
 - a) There shall be no variation from these specifications unless said variation is submitted in writing and approved by the specification author and AguaSeal and/or its Technical Sales Representative (TSR).
 - b) An Approved Applicator (as designated by AguaSeal) shall be on-site during all applications of any AguaSeal products.
2. **Manufacturer's Technical Sales Representative (TSR):** AguaSeal TSR shall be on-site as deemed necessary during the application process. At the Building Owner's specific request, the TSR shall, following each site visit, provide a written inspection report. To be in compliance with Warranty requirements, the TSR is required by AguaSeal to approve the application.
3. The application of this coating system must be in accordance with AguaSeal Waterproofing System's estimated application rate for required dry film thickness, published application instructions and Material Safety Data Sheets.
4. The specified roofing system must be installed by AguaSeal authorized roofing applicator in compliance with drawings and specifications as

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provided by AguaSeal Acquisition, LLC.

5. There must be no deviations made from AguaSeal's specification or approved shop drawings without the PRIOR WRITTEN APPROVAL from a corporate officer of AguaSeal.
6. The solar reflectance of this roofing product may decrease over time due to environmental defacement such as dirt, biological growth, ponded water, etc. The roof should be monitored at regular intervals and maintained or cleaned when necessary to assure the maximum solar reflectance.

1.9 DELIVERY, STORAGE, AND HANDLING

1. Deliver materials to site in manufacturer's unopened and undamaged containers bearing the following information:
 1. Name of manufacturer
 2. Name of contents and products code
 3. Net volume of contents
 4. Lot or batch number
 5. Storage temperature limits
 6. Shelf life expiration date
 7. Mixing instructions and proportions of content
 8. Safety information and instructions
2. Store materials in accordance with AguaSeal instructions.
It is essential that product be protected from the elements to preserve its integrity. Contact the AguaSeal Technical Sales Representative for guidance.
3. Store materials at temperatures between 40 and 90 degrees F (4 - 32 degrees C). Keep out of direct sunlight.
4. Support stored material containers on pallets or otherwise off potentially wet ground as necessary.
5. Handle materials in accordance with manufacturer's recommendations.

1.10 ENVIRONMENTAL REQUIREMENTS

1. The MonoSeal Membrane System should only be applied if no rain is expected before the application has had time to dry and if ambient

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temperatures are 40F (4.5C) or above.

1.11 WARRANTY

MonoTop finish coating will always be applied over the underlayment-reinforced MonoBase system to build system millage to Warranty requirements.

The application rates vary with the warranty selected. The total system dry thickness will also vary based on the base coating used and the warranty selected. See section 3.3 for application and minimum dry thickness amounts.

In all options the following are requirements for obtaining an AguaSeal Warranty.

1. Provide applicable warranty, ie. 10 or 20 year, AguaSeal Material-Only or Labor & Material warranty (see section 3.3 Application, below).
2. The Contractor shall be responsible for an initial three years of labor warranty with AguaSeal being responsible for material only or both labor and material, subject to the specific agreement, from year four forward.
3. Manufacturer is responsible for the labor portion of the warranty from year four forward.
4. To qualify for any AguaSeal Warranties the system must comply with the following dry mil thickness. See section 3.3 for details.

MonoSeal System -	10 Year	40 mils dry minimum
	20 Year	52 mils dry minimum.

1.12 PROJECT CONDITIONS

- A. Acceptable Substrates: As listed in section 2.4
- B. The Roofing Contractor, upon request of the TSR, should conduct a roof scan on flat and low slope roofs of all types prior to commencement of any AguaSeal work, in order to comply with AguaSeal Warranty requirement.
- C. Substrate: After existing roofing systems are cleaned and repaired by the system installer, as required, but prior to starting the membrane system installation work, complete all substrate corrective actions required, including but not limited to; removal and replacement of deteriorated flashing, roof decking, removal and replacement of wet insulation. Substrate shall be smooth, dry, and free of debris.



PART 2 PRODUCTS

2.1 MANUFACTURER

1. AguaSeal Acquisition, LLC
7269 Cross Park Dr., Suite B, N. Charleston, SC 29418
Phone: (843) 614 9663 www.aguaseal.com

2.2 MEMBRANE COMPOUND MATERIAL

1. Waterproofing Material:
 - a) MonoSeal System, namely a water-based, underlayment reinforced, highly flexible acrylic coating system which is liquid-applied in three successive stages, creating one continuous and seamless watertight membrane, with a 40 mils minimum, dry, cured total system thickness;
 1. The MonoBase and MonoTop System comprises:
 - I. MonoBase: a blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings.
 - II. Underlayment: Tietex Roofing Underlayment (TRU™), non-woven polyester, stitch-bonded, 272 weave, heat-set fabric.
 - III. MonoTop: an ultra-violet light resistant blend of highly flexible, water based, 100% pure, acrylic polymer, resin coatings.
2. Reinforcing Underlayment: This material shall be Tietex Roofing Underlayment (TRU™), non-woven 100% polyester, stitch bonded, heat –set fabric, as specified by the Architect/Engineer;
 - a) 272: Weight: Minimum (2.73oz), Target (3.04oz), Maximum (3.34oz)
 - b) 272: Tensile Strength: MD: 67 lbs., CD: 59 lbs. per ASTM D5034
 - c) 272: Elongation @ Break: MD: 25%, CD: 79% per ASTM D5034
 - d) 272: Ball Burst: 109 lbs. per ASTM D3787
 - e) 272: Trapezoid: MD: 22 lbs., CD: 21 lbs. per ASTM D5587
 - f) 272: Thickness: 0.018 inches per ASTM D1777



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2.3 CURED CHARACTERISTICS

<u>PROPERTY</u>	<u>TEST</u>	<u>RESULT</u>
Elongation	ASTM-D638	>300% Elastomeric
	ASTM-D2370	>220% @ Break
Tensile Strength (cured)	ASTM-D412	>2000 PSI (12,789 kPa)
	ASTM-D2370	>210 PSI
Density		12.1 lb./gal
Volume Solids	ASTM-D2697	> or = 50%
Weight Solids	ASTM-D1644	> or = 65%
Viscosity	ASTM D562	129 Krebs @ 77°F
Algae Resistance	ASTM-G29	No Growth Supported
Moisture Vapor	ASTM-D1653	3 perms
Tear Resistant	ASTM-624	81 (Lbf/in)
Fire Rating	ASTM-E108	Class A
VOC (calculated)		< 72 g/L
Susceptibility to Leakage	FM-4470	
Windstorm Pressure	FM-4470	
Severe Hail Test	FM-4470	No Separation or Rupture 1 SH
Resistance to Foot Traffic	FM-4470	No Sign of Tearing or Cracking
Liquid Applied Acrylic	ASTM-D6083	Approved
Weathering	ASTM-G26	No effect after 3,000 hours
Salt Spray Test	ASTM-B117	No effect
Fire Rating	ASTM-E108	Class A
Low Temperature Flexibility (-15°F)	ASTM-D522	Pass
Liquid Applied Acrylic	ASTM-D6083	Approved
Solar Reflectance	ASTM-C1549	> or = 0.79
Thermal Emittance	ASTM-C1371	> or = 0.90

2.4 COVER BOARD MATERIALS

1. Acceptable recovery boards:

- a) **Polyisocyanurate** - 1.5 in. (3.81cm) minimum thickness. Max board size 4ft.x 8ft. (1.219m x 2.438m) if mechanically fastened or 4ft.x 4ft. (1.219m x 1.219m) if adhered with Factory Mutual approved roofing adhesive. Closed cell with factory laminated facer. Foam core to have rated flame spread of 25 in (63.5cm.) or less and minimum compressive

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strength of 250 psi. (1724 kPa).

- b) **Expanded Polystyrene** - 1.5 inches (3.81cm) minimum thickness a minimum of 1.5 lb./ft.³ (24.30 kg/m³) density. Max board size is 4ft. x 8ft. (1.219m x 2.438m) mechanically fastened or 4ft x 4ft (1.219m x 1.219m) if adhered with Factory Mutual approved roofing adhesive.
- c) **Plywood** - ¾ inch (1.905 cm.) minimum thickness tongue and groove exterior B&C grade. (Non-treated). Plywood is to be adhered with sub-floor adhesive and deck fasteners.
- d) **DensDeck** - ¼ inch (0.635 cm.) minimum thickness if used over an approved smooth existing substrate. ½ inch (1.27 cm.) thickness is the normal recommendation.
- e) **Tapered ISO or EPS** – 1.5 inches (3.81cm) minimum thickness a minimum of 1.5 lb./ft.³ (24.30 kg/m³) density. Max board size is 4ft x 4ft (1.219m x 1.219m) with a slope of not less than 0.25 inch per foot (2.083cm/meter).
- f) **USG Securock**- ½ inch (1.27 cm.) thickness is recommended.

NOTE: Fastener type and pattern shall be dictated by the recovery board manufacturer and/or local building codes.

2. Unacceptable recovery boards:

- a) Oriented Strand Board (OSB) – Any type
- b) Extruded Polystyrene- Blue Board (Dow Co.) etc.
- c) High Density Board,
- d) Perlite
- e) Treated Plywood.

2.5 ACCESSORIES

1. **Adhesive:** Insta-Stick, OlyBond, or FM (Factory Mutual) approved polyurethane adhesive, dispensed from pre-pressurized containers. Application guidelines should be dictated by the adhesive manufacture.
2. **Mechanical Fasteners (preferred method):** Use mechanical fasteners with plates. Fastener patterns as to be recommended by the board manufacturer.
3. **Cant Strips:** AguaSeal approved cant strip systems are EPS (Expanded Polystyrene), ISO (Polyisocyanurate) and non-pressure treated lumber. Cant



strips should be installed at internal corners, around curbs, and at any 90-degree angles, all as recommended by the Technical Sales Representative.

4. **Moisture Breathers/One Way Vents:** Moisture breathers, otherwise known as 'One Way Vents' shall be installed on every roofing remediation project as recommended by the TSR.
6. **Retrofit Internal Drains:** Optional unless specified by AguaSeal TSR. Retrofit roof drains are designed to replace existing drains in reroofing applications. Installed from the roof surface, retrofit drains are engineered to be installed without removing the existing plumbing or fixture while providing a watertight connection to the roof system and the existing plumbing.
7. **AguaBase Below Grade:** AguaBase Below Grade may be made into a trowel grade acrylic, cementitious, moderately flexible, and elastomeric bulking material by increasing the Portland #1 Cement content in the AguaBase mix process. It is used in conjunction with MonoBase to fill cracks, voids, or low depressions on various substrates, repair existing delaminated roofing, and provide a harder, more durable, and ponding water tolerant surface around roof drains and scuppers.
8. **PanelSeal Metal Primer:** Water-based surfactant-free primer used to encapsulate existing rust, stabilize and protect metal surfaces.
9. **AguaPath:** a hardwearing, flexible and durable water-based, non-slip coating for the protection of walkways and pedestrian areas on various roofing substrates. Contact the AguaSeal TSR for suitability of purpose subject to the substrate.

PART 3 EXECUTION

3.1 EXAMINATION

1. Ensure the substrate surfaces are clean and dry, free of loose particles, cracks, pits, projections, or otherwise anything that may prevent adhesion or the successful application of the waterproofing system.
2. Ensure any penetrations through the substrate to be treated are securely installed.
3. Ensure that substrate areas are adequately supported and firmly fastened in place.

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4. Ensure the roof substrate has a minimum slope of 0.25" per foot.
5. Ensure the roof substrate is free of any ponding water depressions. In the case of such depressions, AguaBase Below Grade may be used to level out the substrate. Allow to dry before any further product application. In the case of larger areas of ponding water probability, AguaBase BG, TRU™ Underlayment, AguaBase BG, and another coat of AguaBase BG should be applied over the Base application in that specific area.
6. Ensure all attached parapet/vertical walls are properly treated with the AguaSeal MonoBase and MonoTop System.

3.2 PREPARATION

1. Protect adjacent surfaces not designated to receive waterproofing.
2. Remove lightning protection.
3. Clean and prepare surfaces to receive waterproofing treatment by removing all loose and flaking particles, grease and any growing organic materials by power wash and a stiff bristle push broom. Extreme care should be taken not to inject water into the substrate during washing. In some cases, additional drying time may be required after the cleaning process. Please consult your AguaSeal Technical Sales Representative for additional advice on cleaning various roofing substrates.
4. Following power washing, ensure that any remaining loosely adhering residue of previous coatings is removed to facilitate good adhesion.
5. Make any repairs required to the existing substrate. In areas where the existing roofing system is not fully adhered:
 - a) Remove any non-adhering roofing.
 - b) Where necessary install deemed approved recovery board to bring the repair area level with the existing roofing.
 - c) Prime the repair area with a thin coat of MonoBase, AguaBase BG slurry or trowel grade AguaBase BG as recommended by the TSR.
 - d) Apply AguaBase BG Slurry or trowel grade AguaBase BG to the repair area as recommended by the TSR. Embed the TRU™ Underlayment into the slurry.
 - e) Apply another thin layer of MonoBase, AguaBase BG slurry or trowel grade AguaBase BG and trowel smooth.

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6. Do not apply any AguaSeal treatment to any surfaces deemed unacceptable to the TSR.
7. Where applicable - apply PanelSeal Metal Primer to opacity (approximately 200 square feet per gallon) to any/all metal areas designated to receive waterproofing treatment.

3.3 APPLICATION

1. Cover Boards

- a. Adhere cover boards to deck with polyurethane adhesive or proper fasteners in accordance with manufacturer's installation instructions or local building codes to meet a minimum uplift requirement of 1-90. Please verify the proper uplift requirements with the specifier or your local building code authority.
- b. Stagger all board joints.
- c. Lay boards with edges in moderate contact without forcing. Cut boards to fit neatly to perimeter blocking and around penetrations through roof.
- d. Install no more boards than can be covered with waterproofing on the same day.
- e. Install cant strips at internal corners and metal drip edge on outside perimeter.

2. Surface Primers - As necessary, apply one of the following primers at the proper coverage rates. Contact AguaSeal TSR to verify if a primer is required.

AguaGrip - Apply AguaGrip at a minimum of 140 square feet per gallon

PanelSeal Metal Primer- Apply Panel Seal Metal Primer to opacity at an average of approximately 200 square feet per gallon to any/all metal areas designated to receive waterproofing treatment.

3. MonoBase Membrane System Application

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5. MonoBase - To attain warranty standard coverage, apply MonoBase at a coverage rate of 2.5 gallons per 100 square feet (averaging 1.5 gallons per 100 square feet below TRU™ underlayment and 1.00 gallons per 100 square feet on top of TRU™ underlayment. This provides a combined total dry thickness including fabric of 24-26mls.

4. Base Application with TRU™ underlayment

6. Apply project-specific size TRU™ underlayment, laid into the wet MonoBase coating, and immediately saturate the top of the TRU™ underlayment with an additional coat of MonoBase.

Care should be given to ensure that adjacent runs of TRU™ underlayment are overlapped a minimum of 4 inches.

MonoBase coats should only be applied with the use of approved roof brushes. Rolling and spraying of the MonoBase coats are permitted.

- a. Roof Perimeter- Using MonoBase and project-specific sized TRU™ underlayment; waterproof the entire roof perimeter. Continue the treatment up vertical surfaces and onto the deck a minimum of 6 inches in each direction.
- c. Roof Penetrations - Use MonoBase and project-specific sized TRU™ underlayment seal around the base of the penetration, extending at least 6 inches onto the vertical and 6 inches onto the base ensuring watertight integrity. Cut flashing to accommodate the shape of the penetration. Both the top and bottom of neoprene pipe boots shall be flashed in a similar fashion.
- d. Roof Drains - Remove drain rings and use MonoBase and project-specific sized TRU™ underlayment and seal the roof drains, extending into the bowl of the drain.

AguaSeal recommends modifying the existing internal drain with the addition of a retrofit drain assembly. Should retrofit drains be installed, the process should take place after the roof is cleaned and before the MonoBase system is applied.

- e. Scuppers - Using MonoBase and project-specific sized TRU™ underlayment, waterproof and seal scuppers by extending the chosen system beyond the existing roofing system into and through the scupper.

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- f. Wall flashings and Coping caps - using MonoBase and project-specific size TRU™ underlayment seal any seams and fasteners penetrating through-wall flashings and coping caps.
- g. Gutters: Trowel or brush apply suitable AguaSeal sealant (in accordance with the AguaSeal TSR recommendation) to the interior or exterior gutter. Gutter shall be completely clean and dry before application.
- h. Skylights: Curb skylights shall be treated in the same fashion as curb flashings. The entire perimeter shall be flashed with MonoBase and a minimum 6 inches width of TRU™ underlayment. All exposed skylight fasteners shall be encapsulated with MonoBase and TRU™ underlayment or MonoMastic as necessary. Do not bridge fasteners.
- i. Board Seams: All board seams shall be flashed with MonoBase and a minimum 6-inch width of TRU™ underlayment. The TRU™ underlayment shall be centered on seam joint.
- j. Field of Roof - using MonoBase and 40" TRU™ underlayment, seal the entire field of the roof. Overlap adjacent runs of TRU™ underlayment by a minimum of 4".

4. MonoTop Application

10-year Warranty Requirements: Brush, spray or roller apply MonoTop at a total coverage rate of 1.5 gallons per 100 square feet. To achieve this milage, AguaSeal recommends two coats applied at .75 gallons per 100 square feet per coat. Allow coats to dry between application.

Total system dry thickness = 40 mils minimum.

20-year Warranty Requirements: Brush, spray or roller apply MonoTop at a coverage rate of 3 gallons per 100 square feet. To achieve this milage, AguaSeal recommends three coats applied at 1 gallon per 100 square feet per coat. Allow coats to dry between applications.

Total system dry thickness = 52 mils minimum.

OPTIONAL: 20-year warranties may require that the first coat of MonoTop be an alternate color relative to the final MonoTop coats, i.e.; 2 coats of Light Gray/Linen color followed by 2 coats of White or other final color selection.



3.4 PROTECTION OF FINISHED WORK

1. Monitor the finished system for 7 days, sweeping any ponding water from the roof surface off allow for full cure.
2. Verify final film thickness as specified. If specified dry film thickness has not been achieved, application of additional coating will be required.
3. Visually inspect critical areas of the roof including roof seams and penetrations and touch up with additional MonoSeal coatings to ensure complete and adequate coverage.
4. Protect the completed membrane from damage by the work of other trades. Schedule sequence of work so that traffic over the new membrane is minimized. Institute required procedures for the protection of completed membrane during installation of work from other trades throughout the remainder of the construction period. Do not allow traffic of any type on the unprotected membrane.
5. At the completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces, if and where needed. Correct damage by cleaning, repairing, replacing, and/or recoating to make it acceptable to the specifier and/or AguaSeal. Leave in an undamaged condition.

3.5 INSPECTION INFORMATION

- A. Inspect Preliminary Work / Flashing Details for problem areas (e.g., gaps, cracks, fish mouths, air pockets, etc.) to ensure that work is complete and satisfactory.

PART 4 ANNUAL MAINTENANCE PROGRAM

The following are the recommendations for maintaining an AguaSeal MonoSeal Roof System. If you have any questions, please contact our corporate office at 843-614-9663 or your Technical Sales Representative.

1. AguaSeal recommends that the roof area be inspected at least once per quarter.
2. During the annual maintenance program, remove all debris from the roof surface, including any vegetation, dirt, loose nails and screws, unused equipment, etc.
3. Inspect the entire roof surface for any ponding water areas. If ponding is

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occurring then contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator to remove and correct the problem area.

4. Inspect the roof surface for any punctures, especially around exhaust vents and HVAC units. Should any punctures be found, contact AguaSeal Corporate or your Technical Sales Representative who will recommend an approved AguaSeal applicator for repair work.
5. Keep all gutters free of debris. Make sure that the downspouts are draining properly by water testing them.
6. Trim back any overhanging tree branches.
7. Check all caulking and sealants on flashings and copings. Scrape and remove any caulking that is weather cracked and damaged. Clean the area thoroughly using a wire brush if necessary. Reapply polyurethane caulking such as Vulkem, NP-1, or equivalent.
8. Check the mortar on chimneys and parapet walls, both in between the brick and on top. If it is damaged or deteriorating, have it tuck-pointed. Any mason can perform this work.
9. An AguaSeal Roof may be cleaned once a year (not required) to remove surface debris build-up for improved reflectivity and cool roof benefits. Use a soft bristle wash brush and a mild detergent to remove build-up. Rinse thoroughly to remove detergents. DO NOT POWERWASH.

END