

AQUAFIN-TC150AL

1-component, moisture cured, aliphatic, polyurethane elastomeric waterproof top coating.

CSI Div. 07

07 18 00 Traffic Coatings
 07 18 13 Pedestrian Traffic Coatings

Product Description:

AQUAFIN-TC150AL is a single component, liquid applied, moisture cured, aliphatic, polyurethane elastomeric waterproof coating that can be applied to interior or exterior concrete. It can be used as a top coat over Aquafin urethane base coats such as AQUAFIN-TC100M, or over epoxy vapor barriers such as VAPORTIGHT COAT®-SG2, SG3 and SG4.

Typical Applications:

AQUAFIN-TC150AL can be used for a wide range of applications including:

- Exterior & Interior Pedestrian Traffic Surfaces such as Walkways, Patios, Balconies, Sundecks, Breezeways, Stairways, etc.
- Interior Surfaces such as Floors and Mechanical Rooms

Advantages:

- Moisture Cured.
- UV Stable.
- Good color retention.
- Seamless Waterproofing Membrane.
- Single component - easy to apply.

Substrate Preparation:

- AQUAFIN-TC150AL can be placed directly over AQUAFIN-TC100M and Aquafin's VAPORTIGHT COAT®-SG2, SG3 or SG4 without a primer. Refer to the respective product TDS for proper surface preparation, installation instructions and cure times. Pay attention to recoat times and application windows. Ensure surface of base coat or epoxy vapor barrier is dry, clean and free from any bond inhibiting materials such as dust, dirt, etc.
- Only proceed with application when ambient temperature is minimum 40°F (4°C) and rising, and more than 6°F above dew point. Temperatures must be maintained within this range for at least 24 hours after the installation. Do NOT proceed with application when the temperatures drop below 40°F (4°C) or if precipitation is imminent. Special precautions are to be taken when ambient and/or substrate temperatures are approaching, at, or above 95°F (35°C) and it may be necessary to limit material application to evening hours for exterior exposed decks.
- Expansion and control joints are to be prepared in accordance with project specifications.

Mixing:

- Use chemical resistant (Nitrile) gloves and goggles when mixing or applying AQUAFIN-TC150AL.
- For ease of mixing and placement, the temperature of the material should be between 70°F to 80°F (20°C to 26°C).

Physical and Technical Data AQUAFIN-TC150AL	
Hardness, ASTM D2240	90 ± 5 Shore A
Tear Resistance, Die C, ASTM D624	400 ± 50 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D412	3000 ± 200 psi 20.7 ± 1.4 MPa
Ultimate Elongation, ASTM D412	250 ± 50% psi
Specific Gravity	1.16
Solids by Weight, ASTM D2369	85 ± 5%
Solids by Volume, ASTM D2697	74 ± 2%
Viscosity at 75°F (24°C)	3500 ± 200 cps
Volatile Organic Compounds, ASTM D2369	<0.83 lb/gal <100 gm/liter
Theoretical Coverage: note product waste and substrate variances will affect coverage rates	100 ft²/gal @ 16 dry mils

- Open container and mix for 1-2 minutes until streak free mixture is obtained. Thoroughly scrape sides of pail as material is mixed. Boxing material is recommended to ensure color uniformity.
- Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life. Do not mix in an up and down motion.

Installation:

Read all instructions thoroughly prior to installation.

- For best results, use a squeegee or notched trowel. A phenolic resin core roller may be used but extra care should be taken not to trap air which may result in bubbles.
- Apply material in a continuous coating (wet on wet) application to minimize lines and/or streaking.

Single Coat Pedestrian Applications where UV Stability is required:

- **Base Coat:** Apply AQUAFIN-TC100M at a max. of 100 ft² per gal to achieve a minimum of 11 (± 1) DFT (dry film thickness).
- Allow base coat of AQUAFIN-TC100M to cure [typically 16 hours at 75°F (24°C) and 50% relative humidity].
- **Top Coat:** Apply AQUAFIN-TC150AL within 48 hours at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness).
- Immediately (within 2 minutes) after application, broadcast Aquafin Coated Quartz Sand at a rate of 10-20 lbs/100 ft² (0.49 - 0.98 kg/m²) or as required to achieve a slip-resistant finish and immediately backroll sand into the wet coating so that the sand is fully encapsulated. The aggregate should be applied vertically, allowing it to fall onto the AQUAFIN-TC150AL. As a second option, clean, dry, washed, oven

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dried, rounded sand, 2-16 or 16-30 mesh (1.19 mm), 6.5+ Mohs minimum hardness can also be used for the sand broadcast.

- **Total System Thickness:** 27 mils DFT + 15 mils DFT due to sand aggregate broadcast

Two Coat Pedestrian Applications where UV Stability is required:

- **Base Coat:** Apply AQUAFIN-TC100M at a max. of 100 ft² per gal to achieve a minimum of 11 (± 1) DFT (dry film thickness).
- Allow base coat of AQUAFIN-TC100M to cure [typically 16 hours at 75°F (24°C) and 50% relative humidity].
- **Top Coat:** Apply AQUAFIN-TC150AL within 48 hours at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness). Do not apply sand broadcast.
- **Second Top Coat:** Apply AQUAFIN-TC150AL within 48 hours at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness).
- Immediately (within 2 minutes) after application, broadcast Aquafin Coated Quartz Sand at a rate of 10-20 lbs/100 ft² (0.49 - 0.98 kg/m²) or as required to achieve a slip-resistant finish and immediately backroll sand into the wet coating so that the sand is fully encapsulated. The aggregate should be applied vertically, allowing it to fall onto the AQUAFIN-TC150AL. As a second option, clean, dry, washed, oven dried, rounded sand, 2-16 or 16-30 mesh (1.19 mm), 6.5+ Mohs minimum hardness can also be used for the sand broadcast.
- **Total System Thickness:** 43 mils DFT + 15 mils DFT due to sand aggregate broadcast

Note: A two coat application of AQUAFIN-TC150AL will increase the longevity and overall performance of the coating system.

Single Coat Pedestrian Applications over VAPORTIGHT COAT®-SG2, SG3 and SG4:

- **Primer & Vapor Barrier:** Apply VAPORTIGHT COAT®-SG2, SG3 or SG4. Refer to appropriate VAPORTIGHT COAT TDS for full mixing and application instructions and required dry mil thickness. Pay close attention to recoat times.
- **Top Coat:** Apply AQUAFIN-TC150AL at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness).
- Immediately (within 2 minutes) after application, broadcast Aquafin Coated Quartz Sand at a rate of 10-20 lbs/100 ft² (0.49 - 0.98 kg/m²) or as required to achieve a slip-resistant finish and immediately backroll sand into the wet coating so that the sand is fully encapsulated. The aggregate should be applied vertically, allowing it to fall onto the AQUAFIN-TC150AL. As a second option, clean, dry, washed, oven dried, rounded sand, 2-16 or 16-30 mesh (1.19 mm), 6.5+ Mohs minimum hardness can also be used for the sand broadcast.
- **Total System Thickness:** 16 mils DFT + 15 mils DFT due to sand aggregate broadcast

Note: Total system thickness requirement excludes additional dry mils of VAPORTIGHT COAT.

Two Coat Pedestrian Applications over VAPORTIGHT COAT®-SG2, SG3 and SG4:

- **Primer & Vapor Barrier:** Apply VAPORTIGHT COAT®-SG2, SG3 or SG4. Refer to appropriate VAPORTIGHT COAT TDS for full mixing and application instructions and required dry mil thickness. Pay close attention to recoat times.
- **Top Coat:** Apply AQUAFIN-TC150AL at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness). Do not apply sand broadcast.
- **Second Top Coat:** Apply AQUAFIN-TC150AL within 48 hours at a max. of 100 ft² per gal to achieve a minimum of 16 (± 1) DFT (dry film thickness).

- Immediately (within 2 minutes) after application, broadcast Aquafin Coated Quartz Sand at a rate of 10-20 lbs/100 ft² (0.49 - 0.98 kg/m²) or as required to achieve a slip-resistant finish and immediately backroll sand into the wet coating so that the sand is fully encapsulated. The aggregate should be applied vertically, allowing it to fall onto the AQUAFIN-TC150AL. As a second option, clean, dry, washed, oven dried, rounded sand, 2-16 or 16-30 mesh (1.19 mm), 6.5+ Mohs minimum hardness can also be used for the sand broadcast.

- **Total System Thickness:** 32 mils DFT + 15 mils DFT due to sand aggregate broadcast

Notes: A two coat application of AQUAFIN-TC150AL will increase the longevity and overall performance of the coating system. Total system thickness requirement excludes additional dry mils of VAPORTIGHT COAT.

Curing:

- At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 16 hours. Cure time will vary depending on temperature and humidity. If more than 48 hours passes between coats, contact Aquafin Technical Department for recommendations prior to proceeding.
- Allow a minimum of 48 hours before permitting pedestrian traffic on the finished surface. These times are of course predicated on ambient temperature and humidity.
- AQUAFIN-TC150AL is sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes.

Clean-up:

Immediately clean all equipment and tools with polyurethane-grade solvent (alcohol free).

Limitations:

- Higher temperatures will result in shortened working times and faster drying time.
- Color may vary due to batch to batch variation, always "box" different batches to avoid it.

Note:

Proper application is the responsibility of the user. Field visits by AQUAFIN personnel are for the purpose of making technical recommendations and not for supervising or providing quality control on-site.

Packaging:

Colors:

- AQUAFIN-TC150AL is available in a Light Gray or Tan color.
- **5 gal pail** (18.9 liters)
- **50 gal drum** (189 liters)

NOTE: Sand is sold separately and is not included in kits.

Storage and Shelf Life:

Shelf life: 1 year in original unopened container. Store material between 40°F to 90°F (4°C to 32°C). Store in a dry environment and out of direct sunlight.

Safety:

Refer to SDS. For commercial use only. Avoid contact with skin and eyes. Wear rubber gloves and safety goggles during mixing and application. After contact with skin, wash with plenty of water. In case of eye contact, rinse immediately with plenty of water for 15 minutes and seek medical advice. KEEP OUT OF REACH OF CHILDREN.

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LIMITED WARRANTY: AQUAFIN, INC. warrants this product for a period of one year from the date of installation to be manufactured free of defects and to be consistent with its technical properties as stated in our current Technical Data Sheet. This product must be used as directed and within its stated shelf life. AQUAFIN INC. will replace or at our discretion refund the purchase price of any product, excluding cost of labor, which is proven to be defective. Our product recommendations are based on industry standards and testing procedures. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. We assume no warranties written, expressed or implied as to any specific methods of application or use of the product. AQUAFIN INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. AQUAFIN, INC. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

For Professional Use Only.

The following colors are available:



Light Gray



Tan

Color Chart is a representation of the actual color only. Every effort has been made to reproduce these color samples as faithfully as possible. Color variations between batches may exist. Colors may vary due to differences in surface texture, lighting, and methods of application. When ordering additional products make sure you use the same batch number. You will find the batch number on the product label. Not all colors are available always available. Contact Aquafin with questions regarding colors prior to ordering any materials or starting a project.

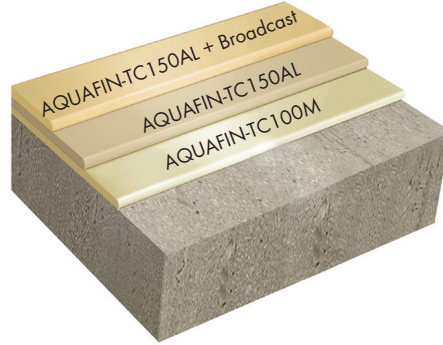
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System Build-Up Options:

Single Coat Pedestrian Applications where UV Stability is required:



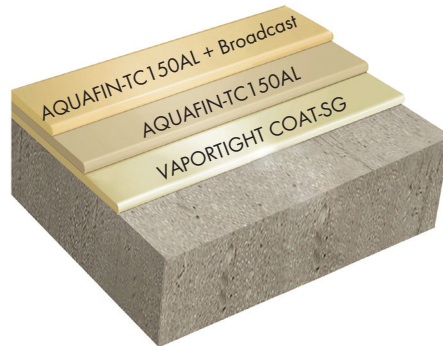
Two Coat Pedestrian Applications where UV Stability is required:



Single Coat Pedestrian Applications over VAPORTIGHT COAT®-SG2, SG3, or SG4:



Two Coat Pedestrian Applications over VAPORTIGHT COAT®-SG2, SG3, or SG4:



AQUAFIN-TC150 AL - Application Rates for System Build-Up Layers:

DFT (dry film thickness) requirements are provided in mils

Pedestrian Applications				
	Single Coat over AQUAFIN-TC100M:	Two Coat over AQUAFIN-TC100M:	Single Coat over VAPORTIGHT COAT-SG:	Two Coat over VAPORTIGHT COAT-SG:
1st Layer	BASE COAT: AQUAFIN-TC100M at 100 sq. ft. per gal / 11 (± 1) DFT	BASE COAT: AQUAFIN-TC100M at 100 sq. ft. per gal / 11 (± 1) DFT	PRIMER/VAPOR BARRIER: VAPORTIGHT COAT-SG2, SG3, or SG4	PRIMER/VAPOR BARRIER: VAPORTIGHT COAT-SG2, SG3, or SG4
2nd Layer	TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT + Coated Quartz Sand	TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT	TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT + Coated Quartz Sand	TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT + Coated Quartz Sand
3rd Layer		SECOND TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT + Coated Quartz Sand		SECOND TOP COAT: AQUAFIN-TC150AL at 100 sq. ft. per gal / 16 (± 1) DFT + Coated Quartz Sand

Notes: Application rates and yield values are approximate. Actual coverage may vary due to substrate variances. Failure to achieve the required DFT (dry film thickness) will compromise the effectiveness of the product and void the warranty. It is the applicator's responsibility to verify that the required dry mil thickness has been attained.