

AQUAFIN-TC200P

2-component, fast setting, solvent free, flexible, polyurethane elastomeric membrane

CSI Div. 07

07 18 00 Traffic Coatings
 07 18 13 Pedestrian Traffic Coatings
 07 18 16 Vehicular Traffic Coatings

Product Description:

AQUAFIN-TC200P is a two component, fast setting, fast curing, solvent free, flexible, high performance, and high solids polyurethane elastomeric coating that can be applied to interior or exterior concrete. It can be used as a stand alone system for pedestrian traffic bearing applications, or as a base coat under the AQUAFIN-TC300V for vehicular traffic bearing applications and any exterior pedestrian traffic bearing applications where UV stability is required. AQUAFIN-TC200P is also relatively insensitive to moisture and temperature allowing applications in varied temperatures and humidity.

Typical Applications:

AQUAFIN-TC200P can be used for a wide range of applications including:

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

*Note: Applications subject to vehicular traffic or where UV stability outdoors is required use AQUAFIN-TC300V. Consult with Aquafin Technical Department.

Advantages:

- 100% Solids.
- Low odor during installation.
- Complies with USDA, FDA, Food Safety Modernization Act.
- Excellent Low Temperature Flexibility.
- Good Chemical Resistance.
- Good Thermal Stability.
- Meets USDA Criteria.

Substrate Preparation:

- All areas of concrete to be treated must be sound, clean and free from loose sand, dirt, dust, oil, grease, paint, and other foreign substances that could interfere with adhesion.
- Remove existing floor coverings, coatings, adhesives, curing compounds, and sealers.
- Concrete must be at least 28 days old and must have reached a minimum 3,000 psi (20 MPa) compressive strength. Repair all spalled areas of concrete using a suitable concrete repair product such as MORTAR-40 CI.
- All concrete surfaces must be primed with PRO-Tekt SP (Sealant Primer) prior to the application of AQUAFIN-TC200P. Refer to the current PRO-Tekt SP (Sealant Primer) Technical Data Sheet for all application instructions, including surface preparation, etc.

Physical and Technical Data AQUAFIN-TC200P	
Hardness, ASTM D2240	64 ± 2 Shore A
Tear Resistance, Die C, ASTM D624	230 ± 25 pli 40.3 ± 4.4 kN/m
Split Tear, ASTM D470	60 ± 5 pli 10.5 ± 0.9kN/m
Tensile Strength, ASTM D412	1500 ± 100 psi 10.3 ± 0.7 MPa
Ultimate Elongation, ASTM D412	1000 ± 100%
Specific Gravity, Side-A Side-B	1.03 ± 0.1 0.98 ± 0.1
Solids by Weight, ASTM D2369	94 ± 2%
Solids by Volume, ASTM D2697	95 ± 2%
Viscosity at 75 °F (24 °C) Side-A Side-B	2500-3000 ± 500 cps 100 ± 50 cps
Volatile Organic Compounds, ASTM D2369	<0.04 lb/gal <5 gm/liters
Theoretical Coverage: note product waste and substrate variances will affect coverage rates	100 ft ² /gal @ 15 (± 1) dry mils 66 ft ² /gal @ 24 (± 1) dry mils

- Ensure AQUAFIN-TC200P is applied to primed surfaces within the required recoat times.
- Primed surfaces must be completely dry and clean.
- Hot surfaces should be cooled and shaded while cold surfaces should be heated and sheltered.
- 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 of AQUAFIN-TC200P. 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:

- AQUAFIN-TC200P is supplied in the appropriate mixing ratio. Always mix full units.
- Use chemical resistant (Nitrile) gloves and goggles when mixing or applying AQUAFIN-TC200P.
- For ease of mixing and placement, the temperature of the "A" and "B" components should be between 70°F to 80°F (20°C to 26°C).
- Pre-mix the "A" and "B" components to ensure all raw material and pigments are dispersed uniformly.

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- Mix for 1-2 minutes. Box the materials. Mix the combined Side-A and Side-B mixture thoroughly until uniform color is attained. Thoroughly scrape sides of pail as material is mixed.
- 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.

Pedestrian Applications where UV Stability is not required:

- **Primer:** Apply PRO-Tekt SP (Sealant Primer). Refer to PRO-Tekt SP (Sealant Primer) TDS for full mixing and application instructions. Pay close attention to recoat times.
- **Base Coat:** Apply AQUAFIN-TC200P within 16 hours at a max. of 100 ft² per gal to achieve a minimum of 15 (± 1) DFT (dry film thickness).
- Allow coat to cure for 2-4 hours (at 75°F (24°C) and 50% relative humidity)
- **Top Coat:** Apply AQUAFIN-TC200P within 12 hours at a max. of 100 ft² per gal to achieve a minimum of 15 (± 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-TC200P. 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:** 30 mils DFT + 15 mils DFT due to sand aggregate broadcast

Pedestrian Applications where UV Stability is required:

- **Primer:** Apply PRO-Tekt SP (Sealant Primer). Refer to PRO-Tekt SP (Sealant Primer) TDS for full mixing and application instructions. Pay close attention to recoat times.
- **Base Coat:** Apply AQUAFIN-TC200P within 16 hours at a max. of 100 ft² per gal to achieve a minimum of 15 (± 1) DFT (dry film thickness). Refer to AQUAFIN-TC200P TDS for full mixing and application instructions.
- Allow coat to cure for 2-4 hours (at 75°F (24°C) and 50% relative humidity).
- **Top Coat:** Apply AQUAFIN-TC300V within 12 hours at a max. of 66 ft² per gal to achieve a minimum of 23 (± 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-TC300V. 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:** 38 mils DFT + 15 mils DFT due to sand aggregate broadcast

Vehicular Applications, Drive Lanes and Standard Exposure:

- **Primer:** Apply PRO-Tekt SP (Sealant Primer). Refer to PRO-Tekt SP (Sealant Primer) TDS for full mixing and application instructions. Pay close attention to recoat times.

- **Base Coat:** Apply AQUAFIN-TC200P within 16 hours at a max. of 66 ft² per gal to achieve a minimum of 24 (± 1) DFT (dry film thickness). Refer to AQUAFIN-TC200P TDS for full mixing and application instructions.
- Allow base coat to cure for 2-4 hours (at 75°F (24°C) and 50% relative humidity).
- **Top Coat:** Apply AQUAFIN-TC300V within 12 hours at a max. of 78 ft² per gal to achieve a minimum of 18 (± 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-TC300V. 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:** 42 mils DFT + 15 mils DFT due to sand aggregate broadcast

Vehicular Applications, Turn Lanes, Ramps and Heavy Duty Exposure:

- **Follow all steps in "Drive Lanes and Standard Exposure" listed above.**
- Allow Top Coat to cure for 2-4 hours (at 75°F (24°C) and 50% relative humidity).
- **Second Top Coat:** Apply AQUAFIN-TC300V within 12 hours at a max. of 100 ft² per gal to achieve a minimum of 15 (± 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-TC300V. 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:** 57 mils DFT + 15 mils DFT due to sand aggregate broadcast

Note: product waste and substrate variances will affect coverage rates.

Curing:

- At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum of 2-4 hours. Cure time will vary depending on temperature and humidity. If more than 12 hours passes between coats, contact Aquafin Technical Department for recommendations prior to proceeding.
- Allow a minimum of 2 to 4 hours before permitting light pedestrian traffic and 48 hours before permitting heavy pedestrian traffic on the finished surface. These times are of course predicated on ambient temperature and humidity.
- AQUAFIN-TC200P is sensitive to heat and moisture. Higher temperatures, high humidity, and large batches will accelerate the cure time. Lower temperatures and/or low humidity will extend the cure time.

Clean-up:

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

Limitations:

- This product is not UV Stable.
- Higher temperatures will result in shortened working times and faster drying times.
- Color may vary due to batch to batch variation, always "box" different batches to avoid it.

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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-TC200P is available in a Light Gray or Tan color.
- **1 gal kits:** One 1 gallon can, net fill 0.8 gallons of Side-A and One 1 quart can, net fill 0.2 gallons (0.78 liters) of Side-B
- **5 gal kit:** One 5 gallon pail, net fill 4 gallons (15.12 liters) of Side-A and One 1 gallon (3.78 liters) can of Side-B

NOTE: Aquafin Coated Quartz 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.

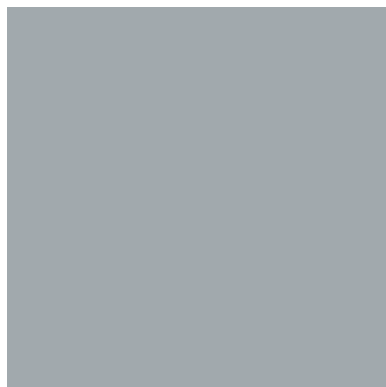
Safety:

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.**

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



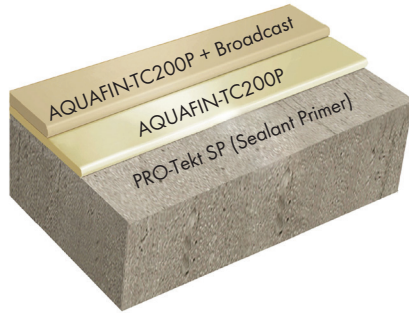
Tan

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.

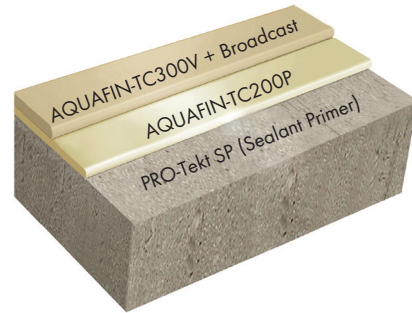
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System Build-Up Options:

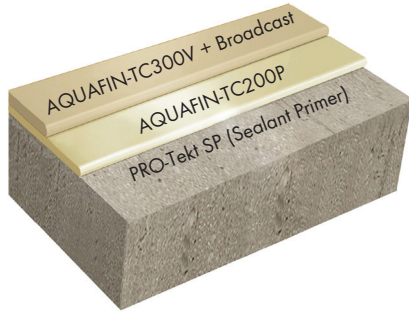
Pedestrian Applications where UV Stability is not required:



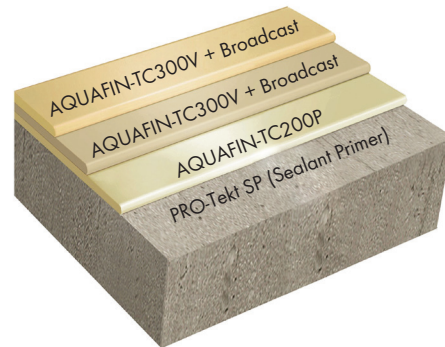
Pedestrian Applications where UV Stability is required:



Vehicular Applications, Drive Lanes and Standard Exposure:



Vehicular Applications, Turn Lanes, Ramps and Heavy Duty Exposure:



AQUAFIN-TC200P and AQUAFIN-TC300V - Application Rates for System Build-Up Layers:				
DFT (dry film thickness) requirements are provided in mils				
	Pedestrian Applications		Vehicular Applications	
	UV Stability is not required:	UV Stability is required:	Drive Lanes and Standard Exposure:	Turn Lanes, Ramps and Heavy Duty Exposure:
1st Layer	PRIMER: PRO-Tekt SP (Sealant Primer)	PRIMER: PRO-Tekt SP (Sealant Primer)	PRIMER: PRO-Tekt SP (Sealant Primer)	PRIMER: PRO-Tekt SP (Sealant Primer)
2nd Layer	BASE COAT: AQUAFIN-TC200P at 100 sq. ft. per gal / 15 (± 1) DFT	BASE COAT: AQUAFIN-TC200P at 100 sq. ft. per gal / 15 (± 1) DFT	BASE COAT: AQUAFIN-TC200P at 66 sq. ft. per gal / 24 (± 1) DFT	BASE COAT: AQUAFIN-TC200P at 66 sq. ft. per gal / 24 (± 1) DFT
3rd Layer	TOP COAT: AQUAFIN-TC200P at 100 sq. ft. per gal / 15 (± 1) DFT + Coated Quartz Sand	TOP COAT: AQUAFIN-TC300V at 66 sq. ft. per gal / 23 (± 1) DFT + Coated Quartz Sand	TOP COAT: AQUAFIN-TC300V at 78 sq. ft. per gal / 18 (± 1) DFT + Coated Quartz Sand	TOP COAT: AQUAFIN-TC300V at 78 sq. ft. per gal / 18 (± 1) DFT + Coated Quartz Sand
4th Layer				SECOND TOP COAT: AQUAFIN-TC300V at 100 sq. ft. per gal / 15 (± 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.				