

PRO-Tekt Trafficoat

100% solids, rapid curing, polyurethane intermediate coat

CSI Div. 07

07 18 00 Traffic Coatings

LEED Points:

MR Credit 5.1, Regional Materials.....Up to 2 Points
 IEQ Credit 4.2, Low-Emitting Materials Paints and Coatings...1 Point
 Using this AQUAFIN product can help contribute to LEED certification of projects in the categories shown above.

Product Description:

Pro-Tekt Trafficoat is a 2-component, polyurethane, intermediate coat designed to provide a durable, anti-slip surface. It can be used in conjunction with various size aggregate depending on the level of traffic anticipated. PRO-Tekt Trafficoat is designed to be used in combination with the PRO-Tekt Flexcoat and Pro-Tekt Topcoat PA waterproof membrane to provide a fully elastomeric traffic system for concrete structures.

The PRO-Tekt Traffic Deck System consists of the following components:

1. Primer: VAPORTIGHT COAT-SG2 or SG4
2. Base Coat: PRO-Tekt Flexcoat
3. Intermediate Coat: PRO-Tekt Trafficoat
4. Top Coat: PRO-Tekt Topcoat PA

Typical Applications:

- Used as the intermediate coat in the PRO-Tekt Traffic Deck System for binding aggregate on pedestrian plaza decks, pedestrian bridges, roof decks, parking decks, and ramps.

Advantages:

- Low odor during application and cure.
- Excellent flexibility.
- Can be used in conjunction with a wide range of aggregates depending upon the type and level of traffic anticipated.
- Rapid cure times compared to epoxy systems.
- Able to fully cure in colder temperatures

Site Mock-up:

- Aquafin recommends installation of a field sample of min. 100 ft² at the project site or other pre-selected area as agreed to by owner's representative, applicator and manufacturer.
- Apply materials in accordance with manufacturer's written application instructions.
- Field sample will be standard for judging color and texture on remainder of project.
- Maintain field sample during construction for workmanship comparison.
- Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

Substrate Preparation:

- Apply only onto properly installed PRO-Tekt Traffic Deck System Base Coat (refer to PRO-Tekt Flexcoat TDS for application instructions and coverage rates). Ensure all surfaces are dry, free from dirt, dust and other foreign substances.

Physical and Technical Data	
Tensile Strength ASTM D412	3,100 psi
Elongation ASTM D412	60 %
Density DIN 53479	1.01 g/cc
Percent Solids	100%
VOC	0 g/l
Shore D ASTM D2240	60 - 65
Tear ASTM D624C	566 pli
Taber Abrasion ASTM D3389	125/1000 mg/rev. loss
Elcometer Adhesion ASTM D4541	>435 psi
Moisture Vapor Transmission Permatron W	0.96 perms
Pot Life*	15 minutes
Gel Time*	15 - 20 minutes
Tack Free Time*	60 - 70 minutes
* 100 gm mixed sample at 77 °F (25 °C)	
Theoretical Coverage: note product waste and substrate variances will affect coverage rates	190 ft ² per kit @ 32 wet mils 45 ft ² /gal @ 32 wet mils 40 ft ² /gal @ 40 wet mils

- 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 PRO-Tekt Intermediate Coat. 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:

PRO-Tekt Trafficoat is supplied in the appropriate mixing ratio. Always mix full units.

- Use chemical resistant (Nitrile) gloves and goggles when mixing or applying PRO-Tekt Trafficoat.
- Material should be between 60°F (15°C) and 85°F (29°C) at time of mixing.
 1. Pre-mix Component A for 30 secs until uniform in color.
 2. Open each container carefully. Do not spill material.
 3. Pour all contents of Component B into Component A (packaged in the larger 5-gal pail).
 4. Mix material using a jiffy style paddle at low speed for a minimum 60 seconds until a uniform homogenous color is achieved.
 5. Thoroughly scrape sides of pail as material is placed in a clean secondary container. Mix for an additional 15- 20 seconds.

NOTE: Extended mixing times can result in premature gel times.

PRO-Tekt Trafficoat

Application:

- PRO-Tekt Trafficoat should be applied to properly applied PRO-Tekt Flexcoat after a minimum of 4 hours and a maximum of 24 hours.
- Apply PRO-Tekt Trafficoat at the following thickness
 - Parking Stalls and Driving Lanes: 45 ft²/gal @ 32 wet mils
 - Ramps and Turning Circles: 35 ft²/gal @ 40 wet mils
- Immediately after mixing, pour PRO-Tekt Trafficoat in sufficient quantity onto surface and uniformly distribute with a 1/8" notched squeegee.
- Follow with a 3/8" or 1/2" non-shed synthetic roller, back rolling at right angle (90 degrees) to the squeegee application to achieve uniform coverage.
- Immediately (within 2 minutes) after application, broadcast clean, oven dried #20 - 50 silica sand to rejection (full broadcast). The aggregate should be applied vertically, allowing it to fall onto the PRO-Tekt Trafficoat at a rate of approximately 30 - 50 lb./100 ft² (1.5 kg/m²). This will avoid any potential "rippling" in the finished surface.
- Allow PRO-Tekt Trafficoat to cure for a minimum 4 hours. PRO-Tekt Topcoat must be applied after a minimum 4 hours and a maximum 48 hours.

Curing:

- PRO-Tekt Trafficoat is self-curing.
- Environmental conditions may accelerate or slow down curing times.

Clean-up:

Promptly wash hands and tools with an approved solvent before material hardens. Cured material must be removed mechanically.

Limitations:

- Do not store materials outdoors exposed to sunlight for prolonged periods. Temperature can affect cure times. PRO-Tekt Trafficoat cures faster when applied during warm weather and high humidity conditions and slower during cool temperatures and low humidity conditions.
- Excessive sun exposure should be avoided during application.
- Provide for expansion and control joints where specified. Never bridge expansion joints, always ensure such joints are honored completely through entire PRO-Tekt Traffic Deck System. Where control or expansion joints do not exist in the substrate, provide for them in the system per design professionals' recommendations.

Packaging and Shelf Life:

Shelf life is 1 year in closed, original packaging, stored in a dry, cool place, above 50°F (10°C) and below 85°F (30°C).

- 38.25 lb/17.3 kg Kit (4.3 gallon/16.3 Liter)
 - Comp A: 25.5 lbs (11.6 kg)
 - Comp B: 12.75 lbs (5.8 kg)

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.

Safety:

Refer to SDS. For commercial use only. Avoid contact with skin and eyes. Wear nitrile 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 Datasheet. 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.

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