AQUAFIN Inc.
505 Blue Ball Rd. #160
Elkton, MD 21921
p: 410-392-2300
e: info@aquafin.net
e: technical@aquafin.net
w: www.aquafin.net

Technical Datasheet

PRO-Tekt SP (Sealant Primer)

Two-Component, Epoxy-Polyamine Primer for Sealants and Coatings

CSI Div. 03, 07 & 09
03 01 00 Maintenance of Concrete
07 01 50 Maintenance of Membrane Roofing
07 14 16 Cold Fluid Applied Waterproofing
07 18 00 Traffic Coatings
07 18 13 Pedestrian Traffic Coatings
07 18 16 Vehicular Traffic Coatings
09 91 33 Primers
09 01 90 Maintenance of Painting and Coating

LEED Points
MR Credit 5.1, Regional Materials.....Up to 2 Points

Product Description:
PRO-Tekt SP (Sealant Primer) is a two-component, epoxy-polyamine primer for sealants and coatings. It is designed to prepare surfaces before the application of PRO-Tekt caulks and sealants as well as AQUAFIN-TC, ELASTOSEAL, and RE-ROOF coating systems.

Typical Applications:
- As a primer for vertical and horizontal cracks and joints in concrete before the application of certain Aquafin caulks and sealants
- As a primer for vertical and horizontal concrete surfaces before certain Aquafin coating systems
- As a primer over concrete, masonry, galvanized steel, and wood trim on roofs before an Aquafin roof coating system

Advantages:
- Fast cure
- Superior penetrating characteristics
- Promotes strong adhesion

Substrate Preparation:
- All substrates must be strong, solid, and stable.
- All surfaces must be dry, clean and free from loose sand, dirt, dust, laitance, efflorescence, form release agents, curing compounds, sealers, paint, existing coatings, and other foreign substances that could interfere with adhesion.
- All surfaces containing trace amounts of oil, grease, or similar substances, must be thoroughly degreased using a cleaner that is appropriate for the substrate. Follow all written instructions for the cleaner and completely remove all residue left from the cleaning process. For oil-contaminated/grease-contaminated concrete slabs, contact Aquafin Technical Department or your local Aquafin Sales Representative for information about Aquafin VAPORTIGHT COAT®-SG2.
- Concrete must be at least 28 days old, and must have reached a minimum 3,000 psi (20 MPa) compressive strength.
- Hot surfaces should be cooled and shaded while cold surfaces should be heated and sheltered.
- On roof areas, install crickets and complete metal sheet work repairs.

Physical and Technical Data	
Mixing Ratio:	1 Part-A (black): 1 Part-B (white)
Coverage Rate:	300 ft² per gal 7.36 m² per liter
Pot Life @ 75°F (24°C) & 50% RH:	60 - 90 min
Tack-Free Time @ 75°F (24°C) & 50% RH:	3 - 5 hrs
Dry Film Thickness (DFT) per coat:	4 ± 1 mils
Specific Gravity Side-A: Side-B:	 1.27 ± 0.1 1.85 ± 0.1
Viscosity at 75°F (24°C):	600 ± 200 cps
Total Solids by Weight, (ASTM D2369):	90 ± 2%
Total Solids by Volume, (ASTM D2697):	84 ± 2%
Color:	Gray
VOC Content:	1.17 lb/gal 140 g/L
All data are averages of several tests under laboratory conditions. In practice climatic variations such as temperature, humidity, and porosity of substrate may affect these values	

Tighten fasteners and replace any fasteners that have deteriorated. All roof drains must be unclogged and working properly. Roofs must be sloped according to industry standards to facilitate water removal. All water must drain and/or evaporate within 48 hours.

- Concrete cracks and joints before the application of a PRO-Tekt caulk or sealant: Chase all cracks to a depth of at least 2" (5.08 cm). Crack and joint edges must be at a straight 90° angle to the horizontal plane of the concrete slab. Flush cracks and joints clean using an appropriate cleaning solution and rinse well. Use clean, oil free, compressed air to blow out any remaining dust, water, or debris prior to installation. When repairing T-joints, cut joint to a depth of at least 25% of the total depth of the slab. The side of the T-joint must be cut 12" (20.4 cm) from the joint and a minimum of 2" (5.08 cm) deep. Allow time for cracks and joints to dry, or use a heat gun to dry out damp cracks and joints.
- Vertical and horizontal concrete surfaces before the application of an AQUAFIN-TC or ELASTOSEAL coating system: Repair all spalled areas of concrete using a suitable concrete repair product such as MORTAR-40 CI. Fill in all minor cracks and joints up to 1/8" wide, and repair all voids and low spots in concrete using MORTAR-QuickPatch.

Mechanically prepare new and existing concrete surfaces to a concrete surface profile (CSP) 3 - 5 per the International Concrete Repair Institute (ICRI) Guideline No. 310-2R-2013. For cracks and joints over 1/8" wide, contact Aquafin Technical Department.

- Vertical and horizontal concrete and masonry surfaces before the application of a RE-ROOF coating system: Repair all spalled areas of concrete using a suitable concrete repair product such as MORTAR-40 CI. Fill in all minor cracks and joints up to 1/8" wide, and repair all voids and low spots in concrete and masonry using MORTAR-QuickPatch. Mechanically prepare new and existing concrete and masonry surfaces to a concrete surface profile (CSP) 3 - 5 per the International Concrete Repair Institute (ICRI) Guideline No. 310-2R-2013. For cracks and joints over 1/8" wide, contact Aquafin Technical Department.
- Galvanized steel on roof areas before the application of a RE-ROOF coating system: Repair all seam and flashing failures. Mechanically remove mill scale, and rust by abrasive blasting according to SSPC-SP6.
- Wood trim on roof areas before the application of a RE-ROOF coating system: Wood surfaces are limited to exterior trim and other non-structural exterior-approved wood components. Sand wood to remove surface contaminants. Then sweep and vacuum clean.

Concrete Moisture Testing:

Aquafin recommends moisture testing of all concrete slabs prior to application of PRO-Tekt SP (Sealant Primer). However, moisture testing is only a guideline and can be influenced by environmental factors. When in doubt, contact Aquafin Technical Department or your local Aquafin Sales Representative for information about Aquafin VAPORTIGHT COAT®-SG products.

- Interior Concrete Slabs: Aquafin recommends testing to determine moisture vapor emission rate (MVER) including "Anhydrous Calcium Chloride" testing as per ASTM F 1869 on slabs to be treated, to determine the MVER in lb/1000 ft^2 • 24 hrs (grams/m^2 • hr) and to determine RH content (%) as per ASTM F 2170. Do not use PRO-Tekt SP (Sealant Primer) when readings are higher than 3 lbs MVER or 80% RH.
- Exterior Concrete Slabs: To obtain an approximate measurement of the moisture in exterior concrete slabs, Aquafin recommends using a combination of in-situ RH content (%) testing and surface MC (%) testing and then comparing the results.

Jobsite Preparation:

Take all necessary precautions to ensure safety.

- Cover all intake vents near the work area.
- Minimize or exclude all personnel not directly involved with the application.
- Follow appropriate measures to prevent any sparks.
- Do not weld, smoke or allow any open flames during mixing, application or curing.
- Ensure that CO2 or other dry chemical fire extinguishers are within easy access.

Mixing:

Epoxy-polyamine primers are temperature sensitive and care should be taken to condition all components to between 65°F to 75°F (18°C to 24°C) prior to mixing and placement. Mix in a well ventilated area. The volume mixing ratio is 1 part A (black) to 1 part B (white) (1A:1B). Carefully mix each part individually and then accurately measure out equal volumes of component A and component B before combining together. Mix for at least 3 minutes using a low speed drill with a jiffy mixing blade or paddle. Occasionally scrape the sides of the container while mixing. For best results, mix at slow speeds (300 – 500 rpm) to prevent entraining air, and continue until a homogeneous mixture is achieved. Do not mix in an up and down motion.

Installation:

Read all instructions thoroughly prior to installation.

- Only proceed with application when the temperatures remain between 50°F and 90°F (10°C and 32°C) and protect from freezing for 24 hours after application. Do not apply PRO-Tekt SP (Sealant Primer) in wet weather or if rain is imminent. PRO-Tekt SP (Sealant Primer) should not become wet within 4 hours after application. Outside temperatures should be falling (installation should be done in the late afternoon) and primer should be applied at least 5°F (3°C) above the dew point.
    - Cracks and joints in concrete: Apply PRO-Tekt SP (Sealant Primer) evenly, using a brush or an airless sprayer.
    - Concrete surfaces (prior to traffic coatings): Apply PRO-Tekt SP (Sealant Primer) in a monolithic application at a rate of 300 ft^2/gallon using an airless sprayer, brush, or 3/8" nap phenolic resin core roller.
    - Roof flashing areas (concrete, masonry, galvanized steel and wood trim surfaces): Apply PRO-Tekt SP (Sealant Primer) to all areas that will receive a RE-ROOF flashing such as edges, seams, joints, metal flashing, penetrations, and transitions. See a RE-ROOF primer selection chart for guidance. Refer to the corresponding primer Technical Data Sheet for surface preparation, mixing and application instructions, dry mil thickness requirements, approx. coverage, curing and recoat times. Allow to cure and pay close attention to recoat times.
    - Roof field areas (concrete and galvanized steel): Apply PRO-Tekt SP (Sealant Primer) over concrete and galvanized steel roofs in preparation for a RE-ROOF base coat. Apply PRO-Tekt SP (Sealant Primer) in a monolithic application at a rate of 150 - 225 ft^2/gallon to achieve a minimum of 5 mils WFT (wet film thickness). Use an airless sprayer, brush, or 3/8" nap phenolic resin core roller. Overlap the RE-ROOF flashing by at least 6 inches (15 cm). Allow to cure and pay close attention to recoat times.

Curing:

- Allow to cure (to touch) until no longer tacky [typically 3 - 5 hours at 75°F (24°C) and 50% relative humidity].
- Once PRO-Tekt SP (Sealant Primer) is no longer tacky, apply subsequent caulk, sealant, or coating within a maximum of 10 to 12 hours. Refer to the respective caulk, sealant, or coating Technical Data Sheet for additional information.
- If PRO-Tekt SP (Sealant Primer) has been allowed to remain tack free for more than 12 hours, re-prime with PRO-Tekt SP (Sealant Primer).
- PRO-Tekt SP (Sealant Primer) is sensitive to heat and moisture. Large mixed batches, higher ambient or higher surface temperatures, or high humidity will accelerate the cure time. Cooler ambient or cooler surface temperatures, or low humidity will extend the curing time.

Clean-up:

TOOLS & EQUIPMENT: Remove fresh/uncured material with an approved solvent. Cured material can only be removed mechanically.
MATERIAL: Dispose of in accordance with local, state and federal disposal regulations.

PRO-Tekt SP (Sealant Primer)

Limitations:
- Do not dilute or thin product.
- PRO-Tekt SP (Sealant Primer) is not UV stable.
- Do not mix more than can be used in 20 mins [based on 75°F (24°C) & 50% RH].
- Large batches/high temperatures/high humidity will result in reduced pot life and shortened working times.
- Once containers have been opened, use material as soon as possible.
- Consult Aquafin Technical Department when mixing or placing outside of the temperature recommendations listed.
- PRO-Tekt SP (Sealant Primer) is not California compliant.

Coverage:
- As a primer for caulks, sealants, and traffic coatings: Approximately 300 ft² per gal (7.36 m² per liter).
- As a primer for roof flashing and roof coatings: Approximately 150 ft² to 225 ft² per gal (3.68 m² to 5.52 m² per liter).

NOTE: Coverage will vary depending on jobsite conditions such as surface texture and absorption.

Note:
Proper application is the sole responsibility of the user. Applicators are expected to follow ICRI and ACI guidelines as well as other applicable industry standards. Aquafin personnel or representatives are not site inspectors or construction project managers and therefore do not approve surface preparation, mixing, or application of Aquafin products. Site visits by Aquafin personnel or representatives are solely for the purpose of making technical recommendations, not for providing supervision or quality control.

Packaging:
- 1/2 gallon kit (1.89 L)
  Component A: (1) 1 qt can (0.946 L)
  Component B: (1) 1 qt can (0.946 L)

- 2 gallon kit (7.57 L)
  Component A: (1) 1 gal can (3.78 L)
  Component B: (1) 1 gal can (3.78 L)

- 10 gallon kit (37.85 L)
  Component A: (1) 5 gal can (18.9 L)
  Component B: (1) 5 gal can (18.9 L)

Shelf Life & Storage:
- 1 year in unopened, original packaging when stored at temperatures between 50°F and 80°F (10°C to 26.6°C).
- Keep containers closed, store in a dry, cool place away from heat, direct sun, sparks, open flame, and moisture.
- Protect material from freezing.

General Information:
All details in particular to the suggestions for the processing and use of the product is based on our present knowledge and experiences at the time of printing. Depending on specific applications, in particular regarding substrates, processing and environmental conditions may affect final results.

Safety:
Refer to SDS. For commercial use only. Ensure adequate ventilation in application area. Use Type C organic vapor cartridge respirators during spray application. Vapor inhalation problems are characterized by coughing, shortening of breath and tightness in the chest. Anyone exhibiting these types of symptoms should be immediately removed from the workplace and administered oxygen or fresh air. If the condition is prolonged or extreme, seek emergency medical assistance immediately. 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. We do not guarantee compatibility of Aquafin products with other brands. For this reason, we strongly recommend application of a sample area at the jobsite to help determine suitability with other products. 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.