AKONAFLEX® PRO EXPANSION JOINT FILLER

Elastomeric sealant, creates waterproof joints in horizontal concrete substrates

1. PRODUCT NAME

Akonaflex® Pro Expansion Joint Filler

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
2025 Centre Pointe Blvd.
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
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3. PRODUCT DESCRIPTION

Akonaflex Pro Expansion Joint Filler is a superior-grade, one-component, MS polymer sealant and filler to be used in concrete joints as well as a wide variety of substrates. Its semi-self -leveling characteristics provide a smooth finish which makes it ideal for filling cracks or gaps on horizontal surfaces such as concrete driveways, sidewalks, patios, steps, garage floors, above ground foundations, and other concrete surfaces. Fills expansion joints up to 1½ in. wide x 1 in. deep, and contains a unique, specially-formulated technology which allows it to be exposed to water after only 2 hours without washing out. Reaches full cure after 24 hours. Won't crack or shrink and acts as an excellent waterproof seal.

Features and Benefits

- Water resistant after 2 hours
- Full cure after 24 hours
- Gray color
- Crack and shrink resistant
- Ready to use (no mixing)
- Paintable (water-based paint)
- Provides waterproof seal
- Superior adhesion
- Meets ASTM C719 and D412

When/Where to Use

- Interior and exterior concrete surfaces
- Fills cracks and expansion joints
- Maximum width of joint: 1½ in. (38 mm)
- Maximum depth of joint: 1 in. (25 mm)
- Horizontal applications

4. TECHNICAL DATA

Refer to "Physical Performance Property" chart on page 2.

Available Sizes

- 10.1 oz. (0.3 L) tube (BOM #104560)
- 29 oz. (0.86 L) tube (BOM #120440)

Coverage

- Each 10.1 oz. tube yields approximately 12 lin. ft. at ½ in. x ¼ in. joint (3.6 m at 13x6 mm)
- Each 29 oz. tube yields approximately 34 lin. ft. at ½ in. x ¼ in. joint (34 m at 13x6 mm)

5. INSTALLATION

Preparation

Read all directions before starting work. Proper surface preparation is crucial to achieving a successful application.

1. Always remove all loose and unsound materials. Thoroughly clean all surfaces of dirt, dust, grease, or other contaminants which could interfere with bonding.
2. For better adhesion, surfaces should be dry, frost-free, and fully cured a minimum of 28 days.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Application

1. Use cartridge in standard caulking gun. Trim cartridge tip to desired bead size. Puncture seal multiple times with a seal punch.
2. Use in joints of maximum width of 1½ in. and depth of 1 in. If the gap is more than 1 in. deep partially fill with a closed-cell backer rod or clean, dry sand before filling with product. The maximum finished depth of Akonaflex Pro Expansion Joint Filler should be ½ the thickness of the width of the joint (2:1 width-to-depth ratio).
3. Repair can be tooled to even out the surface. Taping on each side of a crack can give finished joints a cleaner appearance.
4. For best results, air and surface temperature should be between 40°F-100°F (4°C-38°C) for proper application. Do not apply if rain threatens or is predicted within 2 hours.

Curing

Product should be air-cured. Protect from traffic and debris for 24 hours. Allow joint filler to cure for at least 2 hours before exposing to water; reaches full cure in 24 hours. (Lower temperatures and humidity can extend cure time.) If painting is desired use a water-based paint, allow a minimum cure time of 24 hours prior to painting.

Clean Up

Tools should be cleaned with a citrus or solvent-based cleaner before the product cures. Excess material may be cleaned with a damp cloth and/or mineral spirits. Avoid getting sealant on skin. Wash hands with soap and water. Excess cured caulk can be removed with a razor blade. Avoid undercutting the seal.

Limitations

- Follow all industry standard safety procedures when handling, such as gloves and eye protection.
- Use opened cartridge the same day.
- Rigid paints/coatings (including epoxy coatings) over flexible sealants may result in a loss of adhesion of the paint/coating due to potential movement of the sealant.

Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Akona brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

AKONA® AKONAFLEX PRO EXPANSION JOINT FILLER

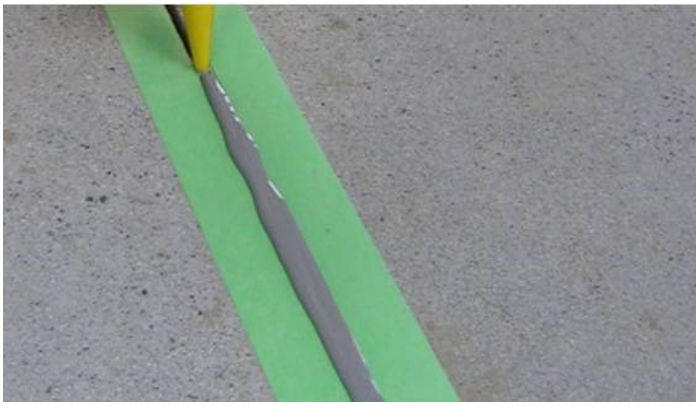
Physical Performance Property	Test Method	Typical Result
Weight per Gallon	Gardner Cup	13.0 +/- 2
Specific Gravity	Calculated	1.25 to 1.75
Total Non Volatile % of Solids (Weight	Computrac Analyzer	> 90%
Extrudability/Application (as packaged)	Semco Gun (6 oz. @ 50 psi)	Approx. 145 sec.
Consistency/Appearance	Visual Observation	Smooth, Viscous Paste
Odor	Subjective	Low
Base Polymer	Known	Silyl-terminated polymer/MS Blend
Pigment	Known	Calcium Carbonate / Titanium Dioxide
Flash Point	Closed Cup	>200°F (93°C)
Freeze/Thaw Stability	Test Lab 0°F/77°F @24 hrs or ASTM C731	Passes 5 cycles
Shelf Life	Lab 50°C Oven—Accelerated	Minimum 12 mo. @ 72°F (22°C) - unopened
Slump	ASTM D2202 Jig	None
Artificial Weathering	ASTM - QUV Tester	2,500 hrs. QUV—no cracking
Flexibility	ASTM 734	Excellent @ -15°F (-26°C)
Tack Free Time	ASTM C679 (max. 72 hrs.)	Approx. 90 min.
Storage Conditions	Test Lab	Cool & Dry (40° to 80°F)
Application Temperature	Test Lab	20°F to 120°F (-6° to 48°C)
Service Temperature	Lab Oven/QUV/Freezer/ OE Fence	-40°F to 200°F (-40° to 93°C)
Paintability	Test Lab/Field Evaluation	Excellent w/ most industrial & consumer paints; 2 hrs. drying (test prior to painting)
Stain & Color Change	ASTM C510 (no visible stain)	Passes
Elongation	ASTM D412	> 900%
Tooling	Test Lab	Caulk smoother or similar tool
Skin Formation	Test Lab	< 60 min.
Tensile Strength	ASTM D412	Approx. 188 psi
Total Joint Movement	ASTM C719	+/- 50%
Curing System	Known	Moisture Cure

6. AVAILABILITY

To locate Akona products in your area, please contact:
Phone: 1.651.688.9116
Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.



Shelf Life	Best when used within one year in original, unopened container.
Storage Conditions	Store dry, cool (40°F-<90°F/4°C-<32° C), out of direct sunlight.
Color	Gray

KEEP PRODUCT IN CONTAINER FROM FREEZING

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

TCC MATERIALS
SPEC BLENDED CONSTRUCTION PRODUCTS®

BLUESTONE PRODUCTS
A TCC MATERIALS COMPANY

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