

## Royston® Flex-Flo Adhesive Sealant (FFAS)

Royston® Flex-Flo Adhesive Sealant (FFAS) is a trowelable, black, zero V.O.C., two component adhesive sealant which cures over a broad temperature range to a tough adherent rubber. FFAS is used to adhere and seal the Royston® line of waterproofing membranes to concrete, asphalt, steel or wood substrates along perimeter locations, curbs, and protrusions. Additional applications include use as a high build flexible bonding agent for a wide range of common construction materials. FFAS is used in both vertical and horizontal Royston® membrane applications on any structure.

As a rubberized elastomeric urethane, FFAS will accommodate a wide variety of expansion, contraction, and shear stresses caused by vibration and thermal movement.

FEATURES	BENEFITS
Self-contained kit	No proportioning required
No special equipment necessary	Can be mixed using a standard 3/8" drill and installed with bulk caulking gun
Priming not required	Easy one step installation
Rapid installation	Reduced labor costs compared to pre-formed seals
Liquid adhesive sealant	Bonds and seals to accommodate irregular applications

TECHNICAL DATA			
Properties (uncured):	Part A	Part B	Mixed
Color	Black	Dark Amber	Black
Shelf Life	1 Year	1 Year	
Density, (lbs./gal.)	8.61 ± 0.2	10.2 ± 0.1	N/A
Viscosity, (cps.)	1500 ± 500	100 ± 25	500 ± 250
Mixing Ratio (by vol.)	10	1	
Pot Life @ 77° F (25° C)			45-60 min
Initial Set @ 77° F (25° C)			8-12 hrs
Initial Cure @ 77° F (25° C)			90% @ 24 hrs.
Full Chemical Cure			7 days
Properties After Cure:			
Weather Resistance			Good
Microbial Resistance			Non-Nutrient
Tensile Strength	ASTM D638		50 psi min
Elongation	ASTM D638		300% min.
Shore A Hardness	ASTM D2240		50 max.
Water Absorption	ASTM D570		<1% avg.

### USES

#### Application

- Waterproof/adhere Royston® sheets membrane in curb transitions, directional changes, along perimeter and protrusions such as drains & scuppers.
- Sealant in transverse pavement joints
- Crack repair of asphalt pavement
- High build construction adhesive
- Sealing bulkheads and conduit knockouts

#### Locations

- Bridges Decks
- Parking Decks
- Commercial buildings

#### Substrate

- Concrete
- Asphalt
- Steel
- Wood
- Foam insulation board

**ADVANTAGES:**

- Easy Installation: Fluidity/viscosity of the product allows for use as sealant in irregular joint openings and as a bonding agent on irregular or textured surfaces.
- Aggressive adhesive: Adheres to most common construction materials
- Toughness: Hardens to a tough flexible rubber seal that allows movement while maintaining material integrity.

**SURFACE PREPARATION:**

New Concrete: New concrete should cure 80% of the design strength. Concrete should be a minimum 14 days old. Sandblasting with a medium grit sand is the preferred method of surface preparation. Mechanically grinding the surface is acceptable but only when sandblasting is not possible. The surface should be prepared in a manner that will add a profile to the new concrete.

Existing Concrete: Existing concrete should be cleaned of all oils, greases, dirt, waxes, existing coatings, curing compounds, heavy laitance, and sharp edges. If a suitable clean textured surface is not available, sandblasting with a medium grit sand is the preferred method of surface preparation. Mechanically grinding the surface is acceptable but only when sandblasting is not possible. The surface should be prepared in a manner that will add a profile to the existing concrete.

Steel: Carbon steel surfaces must be clean and sandblasted to a near white metal (SSPC-SP10 Near White Blast) finish immediately before the installation. Specialized metals such as stainless, hot dipped galvanized, bronze, etc. should have their surfaces mechanically etched. Apply heat to the steel prior to priming in order to remove any moisture from the surface. All surfaces must be free of any coatings, curing agents, rust and dirt prior to installation.

Asphalt: New and old asphalt should be clean with no road debris, dirt or dust present. All contaminants must be removed prior to FFAS installation.

**MIXING:**

Using a spiral mixing paddle and drill, pre-mix Part A thoroughly for 2 minutes. While continuing to mix Part A, slowly pour Part B into Part A. Mix for an additional 5 minutes after Part B has been added. When mixing be sure to scrape along the edges of the container in order to ensure homogeneity. There will be no clear color change during the mixing process, therefore it is imperative that the product is mixed for the full 5 minutes.

**APPLICATION:**

Mixed FFAS may be applied with a bulk caulking gun, trowel, knife, or heavy brush.

- Adhesive: FFAS should be applied at a rate of 60 mils or 25 square feet per gallon when used as a construction adhesive. Second substrate should be added to exposed surface of FFAS immediately after placement.
- Sealant: FFAS should be installed using a width to depth ratio of 2:1 for best performance. Openings should NOT exceed 2" (51mm).

**LIMITATIONS:**

- Do not install below 35° F (2° C)
- Material performs between -40° F (-40° C) and 200° F (93° C)
- Material should not be installed in a wet environment/standing water
- Shelf life is one year from date of manufacture for unopened containers
- Temperature and humidity will affect cure time. Higher substrate and ambient temperatures will accelerate the cure.
- Maximum joint opening for FFAS is 2" (51mm)

**AVAILABILITY**Kit Size:

2 Gallon Kit

4 Gallon Kit

Colors: Black**CLEAN UP:**

See SDS for additional health and safety information

**STORAGE:**

DO NOT ALLOW PRODUCT TO FREEZE. Store in a dry area at temperatures between 75° F and 100° F (24° C - 38° C) in the original unopened containers.

**CAUTION:**

Direct contact with skin should be avoided. Protective clothing, goggles and gloves are recommended.

In case of contact with eyes or ingestion, contact a doctor immediately.

## Contact Chase Construction Products

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