PF-43 Slow Rise Two-component Foam Kits

ULTRASEAL® PU FOAMS
TECHNICAL DATA SHEET

UltraSeal® PF-43 (SR) Slow Rise is a self contained, portable two-component polyurethane foam dispensing system that utilizes a non-flammable blowing agent and requires no outside power source. The kit offers a slow rising foam with slow expansion and curing rates when compared to other "traditional" foam kits.

UltraSeal® PF-43 SR (slow rise) two-component froth systems will expand upon chemical reaction of A component and B component to a final volume that is 3 to 5 times the dispensed volume, in typical applications, and may be as much as 8 times the dispensed volume, depending on various factors such as cavity size, ambient conditions, etc. The foam will cure to a semi-rigid closed cell foam.

FEATURES & TYPICAL USES:

UltraSeal® PF-43 (SR) Slow Rise is designed for filling cavities, molds, fixtures or holes where a slower curing and expanding polyurethane foam system is required. The foam can be dispensed into clean and dry voids of various size to insulate, fill, seal, strengthen, provide buoyancy, deaden sound reduce vibration. UltraSeal PF-43 kits are used in OEM or other in-plant applications where more engineering controls are needed for optimum performance. **UltraSeal® PF-43 (SR) Slow Rise** tanks are supplied complete with a gun hose assembly and standard spray nozzles.

UltraSeal® PF-43 (SR) Slow Rise adheres to almost all building materials with the exception of surfaces such as polyethylene, Teflon, silicone, oils and greases, mold release agents and similar materials.

SURFACE PREPARATION & APPLICATON:

UltraSeal® PF-43 (SR) Slow Rise foams adhere to almost all building materials, with the exception of surfaces such as polyethylene, Teflon®, silicone, oils and greases, mold release agents, and similar materials. Optimum chemical temperature is 24°C (75°F). See the "Product Storage" section for important temperature information. Cured foam is resistant to heat and cold, –129 to +93°C (-200 to +200°F), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured PU foam is chemically inert and non-reactive in approved applications.

Shake well before using. Application area must be dry, firm, free of loose particles, dust, grease and mould release agents. Protect surfaces not to be foamed. For pouring or mold filling applications, clamping of the mould is generally required to provide uniform support against foaming pressure. Extent of this clamping should be determined based on application and desired results.

INSTALLATION:

UltraSeal® PF-43 (SR) Slow Rise foam should be filled into cavities in excess of the theoretical "free-rise" volume. This is important in order that the foam is "packed" to a higher in-place density, thereby achieving optimum physical properties and dimensional stability. A calculated in-place density of 2 lbs./ft.³ (32 kg./m.³) is recommended and shown for specification purposes. After following instructions for set-up, kits are ready to use. Attach appropriate hose to A and B tanks if needed. Open tank valves as directed. Materials are dispensed through the hoses and mixed in the disposable nozzle. With a nozzle attached to the two-component dispensing unit, dispense foam by squeezing the trigger. To interrupt or stop the foaming process, release the trigger. Once foaming process has stopped, the dispensing unit must be reactivated within 30 seconds or a new nozzle must be installed. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities.

PF-43

FEATURES:

- Slow rise.
- High density polyurethane foam.
- Quick curing.
- Reusable
- All-in-one kits.
- Applies easily.
- Fills & seals various size voids in the building envelope.

Volume:

PF-43

- 43.7 ft^3 **(1.24 m^3)**

**Physical properties and yields are based on an in-place density of 2.0 lbs /ft.3 Actual yields may vary depending on in-place density, application, and ambient conditions. Consult technical information for recommended application procedures*

MANUFACTURED BY:

Rivenco Industries Ltd.
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CAUTION:

Avoid contact with eyes and skin. **ALWAYS** wear protective eye wear, gloves and clothing when operating. Use only with adequate ventilation or NIOSH-certified respiratory protection . In non-ventilated areas, **DO NOT** fire, DO NOT puncture or incinerate. **DO NOT** expose cylinders to temperatures above 49°C (120°F). The foam produced with this product is combustible and may present a fire hazard if exposed to flame, spark or temperatures above 116°C (240°F). **Note: Avoid over filling restricted spaces. Chemicals exert force during reaction and an uncontrolled expansion of foam may result by spraying you and the work area. Building Codes:** The use of this product may be restricted or prohibited in certain areas by local building codes covering the use of cellular plastics. **ALWAYS** check local code(s) before using product.

SHELF-LIFE & STORAGE:

Store at temperatures between 16°C to 27°C (60°F and 80°F). **Notice to purchaser:** UltraSeal® PF Series are guaranteed to conform to product specifications, if used by the expiry date imprinted on each aerosol container (12 months after manufacture).

TYPICAL PROPERTIES:

These values are not intended for use in preparing specifications. Spec Writers; please contact RIVENCO Inc. before writing specifications if any further information is required.

Description	Specification
Density (ASTM D-1622, In-place):	2.00 lb/ft^3 (32 kg/m^3)
Density (ASTM D-1622):	1.75 lb/ft^3 (28 kg/m^3)
K-Factor (ASTM C-518, per inch):	0.168 BTU (ft.)(h)(F)
Tensile Strength: (ASTM D1623)	
Parallel:	42 psi (286 kPa)
Perpendicular:	28 psi (191 kPa)
Compressive Strength (ASTM D-1621):	
Parallel @ 10%:	14 psi (95 kPa)
Perpendicular @ 10%:	19 psi (101 kPa)
Closed Cell Content (ASTM D-2856):	Approx. 92%
Tack-free / Expansion Time:	60 – 90 seconds
Cuttable:	5-10 min
Fire Rating (DIN 4102-1)	B2

SPECIFICATIONS:

PF-43 meets:

- *The Coast Guard specification requirements for flotation in Title 33 code of Federal Regulations*
- *The requirements of DIN 4102-1 for "B2" building material.*

WARRANTY INFORMATION:

RIVENCO Inc., warrants only that its product will meet its specifications. RIVENCO shall in no event be liable for incidental or consequential damage. RIVENCO's liability, expressed or implied is limited to the stated selling price of any goods found to be defective.

DISCLOSURE:

The information and data contained herein is BASED ON INFORMATION WE BELIEVE TO BE RELIABLE. Please read all statements, recommendations or suggestions herein in conjunction with our CONDITIONS of SALE which apply to all goods supplied by us. We assume no responsibility for the use of theses statements, recommendations or suggestions, nor do we intend them as recommendation for any use which would infringe any patent or copyright.

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