

DuraTite® 4.0 FS – Part # DT40-FS SET

**DESCRIPTION:** DuraTite 4.0 FS is an HFC-blown, Zero Ozone-Depleting (Zero-ODP), closed-cell spray polyurethane foam system. This structural spray foam system is formulated to set quickly, so it can easily be sprayed in overhead applications with little or no dripping.

**TYPICAL USES:**

- Silos or metal storage buildings to add strength to the structure
- Used with Rhino Extreme™ to coat ship hulls and add structural strength
- Tank insulation
- Cold storage

**FEATURES & BENEFITS:**

- Extremely lightweight but strong
- Increases racking strength of structure
- Seamless, fully-adhering and self-flashing
- Eliminates air infiltration
- Covers complex geometrical shapes and protrusions
- Sprays overhead without drips
- Withstands pressure washing
- Applies directly to properly prepared existing substrates

**CHEMICAL PROPERTIES:**

	Isocyanate (A)	Resin (B)
Specific Gravity @77° F (25° C), (grams/cc)	1.23	1.16
Viscosity @ 70° F (21° C), cps	500	150 – 350
Volatile Organic Compounds by Volume (lbs/gal)	9	7 – 15
Mix Ratio, Parts per Volume	1	1
Cream Time, seconds	3 – 9	
Rise Tme, seconds	8 – 12	
Odor	slightly musty	amine-like
Color	yellow, brown	light brown
Shelf Life - Unopened Containers, stored from 60–90°F (15.5-32.2°C) in a dry area less than 50% RH	12 months	6

**PHYSICAL PROPERTIES:** These physical property values are typical for this material as applied at our development facility under controlled conditions. Your final results may vary depending on equipment setting and surrounding environment.

**TYPICAL PHYSICAL PROPERTIES:**

	Test	Result
Density (pcf)	ASTM D-1622	4.0 ± 0.2
Tensile Strength (psi)	ASTM D-1623	75 – 120
Shear Strength (psi)	ASTM C-273	55 – 65
Compressive Strength (psi)	ASTM D-1621	120 – 160

**PROCESSING CHARACTERISTICS:** The system settings required to achieve quality spray foam application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality. DO NOT RECIRCULATE.

Equipment Used	Process Pressure	Spray Gun
Graco® Reactor EXP-2 set with 200ft heated hose and 10ft hose whip	1000 – 1400 psi (static pressure)	Fusion-RhinoPro Air Purge with AR2929 mix module

**Process Temperatures**

Iso (A) & Resin (B) Components	Hose	Substrate Temperature
120 – 140° F (49 – 60° C)	120 – 140° F (49 – 60° C)	50 – 160° F (10 – 71° C)

**APPLICATION INSTRUCTIONS:** Designed for an application rate of ½ inch minimum to 1¼ inches maximum. Once installed and material has cooled, it is possible to add additional applications in order to increase the overall installed thickness of SPF. This application procedure is in compliance with the SPFA industry guidelines for the application of spray polyurethane foam.

(continued)

**NOT RECOMMENDED FOR:**

- DuraTite 4.0 is NOT designed for use as an insulation system.
- Not for cold-storage usage.
- Neither tested nor represented as suitable for medical or pharmaceutical uses.
- DuraTite 4.0 is non-rated spray foam system.
- DuraTite is combustible. High-intensity heat sources such as welding or cutting torches must not be used in contact with or in close proximity to DuraTite 4.0 or any polyurethane foam.

**SUBSTRATES:** Bonds to virtually all substrates including metals, wood and concrete

**HOW SUPPLIED:** Net weight per set is 960 pounds (435.4 kg). A set of DuraTite 4.0 consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component.

**STORAGE:** Store in unopened original containers in a cool and dry place out of direct sunlight. Storage temperatures: 60 – 90° F (15.5 – 32.2° C).

**SAFETY PRECAUTIONS: Health Considerations - Consult the Rhino Linings® Safety Data Sheets (SDS)**

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

**For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors.

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