

Data Sheet

DESCRIPTION: DuraTite 8.0 is a closed-celled, water-blown spray polyurethane foam (SPF) system designed for geotechnical applications that require high compressive strength and low exothermic reaction temperatures. DuraTite 8.0 is applied as a liquid and then expands approximately 10x in seconds. DuraTite 8.0 exhibits low exothermic reaction temperature and therefore can be applied in a single continuous lift well beyond 4" thickness without danger of charring or ignition. DuraTite 8.0 utilizes advanced, proprietary chemistry that lowers the exothermic reaction temperature of the product during installation and allows the foam to build up on itself during a continuous-lift installation without excessive pooling or blowback.

TYPICAL USES:

- Exterior trench breaker
- Soil stabilization
- Geotechnical applications
- Concrete jacking and cavity fill

FEATURES & BENEFITS:

- Ability to have greater than 4" lift in single pass
- No ozone depleting substances, HFCs, PBDEs
- Low odor during application and produces no toxic vapors after application
- High temperature stability to 200°F (93.3°C)

CHEMICAL PROPERTIES:

		Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-1475	1.23	1.12
Viscosity (cps)	ASTM D-2196	200 – 250	750 – 1300
Mix Ratio, Parts per Volume		1	1
Cream Time (seconds) @ 77°F (25°C)		15 – 17	
Rise Time (seconds) @ 77°F (25°C)		50 – 60	
Shelf Life - Unopened Containers		6 months	6 months

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Density (nominal):	ASTM D-1622	8.0 lb/ft ³ (128 kg/m ³)
Tensile Strength (psi)	ASTM D-1623	146 typical
Compressive Strength (psi)	ASTM D-1621	69 typical
Closed-Cell Content (%)	ASTM D-2856	>87
K-factor (Btu in/ft ² hr °F)	ASTM D-518	0.206
Water Absorption	ASTM D-2842	≥0.04 lbs/ft ³
Fungus Growth	ASTM G-21	None
Dimensional Stability (%)	ASTM D-2126	<2Δ
Fire Rating*	ASTM E-84	Class I (non-rated)

*Combustion properties are the result of internal testing and are not the result of an audited third party testing.

PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS: DuraTite 8.0 must be spray-applied using approved equipment. 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.

Iso (A) & Resin (B) Components	Processing Pressure	Ambient Temperature
115 – 150° F (46.1 – 65.6° C)	900 – 1500 psi	20 – 105° F (-6.7 – 40.6° C)
Substrate Temperature	Substrate Moisture Content	Maximum Lift Thickness
>35° F (1.7° C)	Wet	4"

PREPARATION: DuraTite 8.0 resin (B) does not require agitation. If necessary, pre-heat and/or recirculate resin (B) up to 100°F (40°C) without any degradation or loss of blowing agent.

(continued)

RHINO LININGS® DURATITE 8.0 (continued):

APPLICATION INSTRUCTIONS: DuraTite 8.0 should not be left exposed to sunlight, as UV light will rapidly degrade foam.

SUBSTRATES: DuraTite 8.0 is chemically and physically compatible with all common building materials including electrical wiring, wood, metal, concrete, plastic (PVC), copper, vinyl, and glass.

HOW SUPPLIED: DuraTite 8.0 net weight per set is 1000 pounds (453.6 kg). A set of DuraTite 8.0 consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component. Set consists of: part A: FFPF-PUCC8RPTB-D and part B: FFPF-ISO A-D

STORAGE: DuraTite 8.0 should be stored between 50 – 90° F (10 – 32.2° C) out of direct sunlight. Do not allow material to freeze.

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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