



STRATA-FILL™ 24-070

Technical Data Sheet

STRATA-FILL™ Product Line

The Strata-Fill™ low-exotherm product line is comprised of dual-component systems formulated for a variety of geotechnical applications, such as void filling, pipe abandonment, trench breakers, and cavity filling. Each batch goes through stringent testing and quality assurance standards to ensure reliability in the field.

APPLICATIONS

Filling Large Voids

Pipe Abandonment

Underground Tank Abandonment

STRATA-FILL™ 24-070

Strata-Fill™ 24-070 is a two-component, HFO blown, low-exotherm polyurethane system. 24-070 offers slow reactivity for greater flow, making it ideal for filling large void areas, pipe abandonment, and underground tank abandonment.

UNIQUE ADVANTAGES

Low Exotherm

Contains No Solvents

Slow Reactivity

Excellent Flow

REACTIVITY AT 110°F

Cream Time	11 – 13 seconds
Gel Time	147 – 153 seconds
Tack Free Time	245 – 255 seconds
Rise Time	335 – 345 seconds

Chemical Resistance

Solvents... **Excellent**

Mold and Mildew... **Excellent**

Performance

Wet Environments... **Poor**

Material Flow... **High**

Physical Properties

Physical Properties	Test Method	Free Rise
Density	ASTM D1622	2.1 pcf
Compressive Strength	ASTM D1621	33 psi
Compressive Modulus	ASTM D1621	745 psi
Tensile Strength	ASTM D1623	55 psi
Tensile Modulus	ASTM D1623	860 psi
Water Absorption	ASTM D2842	≤0.04 lbs/ft ²
Closed Cell Content		>90%
Max Service Temp		200°F
Elongation	ASTM D162.	6%
Shear Strength	ASTM C273	33 psi
Shear Modulus	ASTM C273	200 psi
Flexural Strength	ASTM D790	31 psi
Flexural Modulus	ASTM D790	580 psi

Special Testing/Certifications

Flammability	FMVSS-302 FAR 24.853A(III) UL-94	PASS PASS PASS
USG Title 33, Chapter 1, Part 183		PASS
Initial K-Factor		0.167
Moister Vapor Transmission		2-3 PERM•INCH

Component Properties

Component	B-24-070	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	450 cps at 72°F	200 cps at 72°F
Specific Gravity	1.14	1.24
Weight per Gallon	9.4 lbs	10.3 lbs
Storage Temperature	50-100°F	50-100°F

Mix Ratio

By weight... 100 parts poly: 112 parts iso

By volume... 100 parts poly: 100 parts iso

Processing Parameters

ISO Temperature	100 – 140°F
Poly Temperature	100 – 140°F
Mixing Pressure	1000 psi static 800 psi dynamic

Storage and Handling

For optimum shelf life, the recommended storage temperature is 50°F to 100°F. **Do not expose iso to lower temperatures – freezing may occur.** Avoid moisture contamination during storage, handling, and processing. After opening, pad the containers and day tanks with either nitrogen or dry air (desiccant cartridge or air dryer @ -40°F dew point).

Store components at 70°F to 90°F for several days prior to use to minimize viscosity issues.

Shelf life of Resin is 6 months and ISO is 2 years for factory sealed containers.

Application Cautions

Careful consideration should be given to selection and application of any NCFI Polyurethane foam system where excessive foam mass build-up can occur. Excessive polyurethane foam lift thickness will result in high internal temperatures within the injected foam, which can result in degraded foam properties, or in extreme cases, fire or spontaneous combustion. **Any flammability rating contained in this literature is not intended to reflect hazards presented by this or any other material under actual fire conditions.** Each person, firm or corporation engaged in the application, installation or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage and utilize all appropriate precautionary and safety measures. Please consult NCFI Polyurethanes for safety considerations, polyurethane system selection and application recommendations.

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