STRATA-FILL™ 24-039

Technical Data Sheet

STRATA-FILL™ Product Line

The Strata-Fill™ light-weight fill 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.

STRATA-FILL™ 24-039

Strata-Fill™ 24-039 is a hydrophobic / hydro-insensitive two-component, HFO blown, low-exotherm polyurethane system. 24-039 offers slow reactivity for greater flow, making it ideal for filling large void areas, pipe abandonment, and underground tank abandonment.

APPLICATIONS

Filling Large Voids
Pipe Abandonment
Underground Tank Abandonment
Soil Stabilization

UNIQUE ADVANTAGES

Low Exotherm
Hydrophobic / Hydro-Insensitive
Contains No Solvents
Slow Reactivity
Excellent Flow

Reactivity at 110°F

Cream Time	2 seconds
Gel Time	56 seconds
Tack Free Time	165 seconds
Rise Time	106 seconds

Chemical Resistance

Solvents…	Excellent
Mold and Mildew…	Excellent

Performance

Wet Environments…	Excellent
Material Flow…	High

Physical Properties

Physical Properties	Test Method	Free Rise
Density	ASTM D1622	2.2 pcf
Compressive Strength	ASTM D1621	35 psi
Compressive Modulus	ASTM D1621	530 psi
Tensile Strength	ASTM D1623	37 psi
Tensile Modulus	ASTM D1623	928 psi
Water Absorption	ASTM D2842	≤0.08 lbs/ft²
Closed Cell Content		>85%
Max Service Temp		200°F
Elongation	ASTM D1623	9.3%
Shear Strength	ASTM C273	37 psi
Shear Modulus	ASTM C273	2736 psi

NCFI GEOTECHNICAL

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Component Properties

Component	B-24-039	A2-000
Appearance	Clear Amber Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	650 cps at 72°F	200 cps at 72°F
Specific Gravity	1.0780	1.24
Weight per Gallon	8.99 lbs	10.3 lbs
Storage Temperature	50 – 100°F	50 – 100°F

Mix Ratio

By weight… 115 parts A-side: 100 parts B-side

By volume… 100 parts A-side: 100 parts B-side

Processing Parameters

A-side Temperatures	100 – 120°F
B-side Temperatures	100 – 120°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 B-side is 6 months and A-side 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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