



TERRATHANE™ 24-3F

Technical Data Sheet

TERRATHANE™ Product Line

The TerraThane™ product line is comprised of uniquely formulated, dual-component systems designed for a variety of geotechnical applications, such as lifting, soil compaction, void filling, and I/I mitigation. Each batch goes through stringent testing and quality assurance standards to ensure reliability in the field.

APPLICATIONS

Foundation Repair
Trip Hazard Mitigation
Floor Leveling
Highways and Roadways
Airport Runways and Taxiways
Joint Matching
Deep Soil Injection

TERRATHANE™ 24-3F

TerraThane™ 24-3F is a 3.0lb hydrophobic/hydro-insensitive water blown system designed for excellent expansion and pinpoint control for structural lifting and leveling. The 24-3F's hydrophobic nature allows it to maintain exceptional physical properties even in saturated conditions.

UNIQUE ADVANTAGES

Fast Expansion Design
Hydrophobic / Hydro-Insensitive
High Control for Structural Lifting
Contains No Solvents
Strengthens Loose Soil
Water Blown System

REACTIVITY AT 110°F

Cream Time	2 sec
Gel Time	7 sec
Tack Free Time	12 sec
Rise Time	19 sec

Chemical Resistance

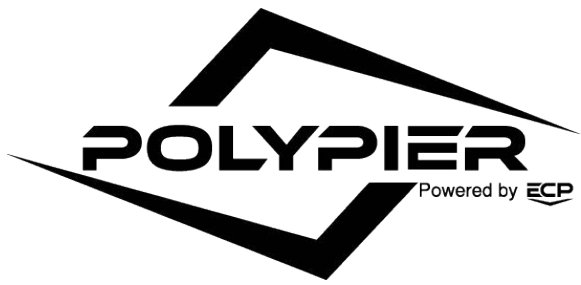
Solvents... **Excellent**
Mold and Mildew... **Excellent**

Performance

Wet Environments... **Excellent**
Lifting Capacity... **Excellent**

Physical Properties

Physical Properties	Test Method	Free Rise
Density	ASTM D1622	3 pcf
Compressive Strength	ASTM D1621	41 psi
Compressive Modulus	ASTM D1621	1250 psi
Tensile Strength	ASTM D1623	77 psi
Tensile Modulus	ASTM D1623	127 psi
Water Absorption	ASTM D2842	≤0.04lbs/ft ²
Shear Strength	ASTM C273	48 psi
Shear Modulus	ASTM C273	4356 psi
Closed Cell Content		>93%
Max Service Temp		200°F



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Special Testing/Certifications

NYDOT Hydro-insensitivity test, GTP-9	>92% density retention >93% comp str retention
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Component Properties

Component	B-24-3F	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	750 cps at 72°F	200 cps at 72°F
Specific Gravity	1.07	1.24
Weight per Gallon	8.9 lbs	10.3 lbs
Storage Temperature	50-100°F	50-100°F

Mix Ratio

By weight... 100 parts poly: 118 parts iso

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

Processing Parameters

ISO Temperature	100 – 120°F
Poly Temperature	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 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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