



TERRATHANE™ Product Line

The TerraThane™ product line is comprised of uniquely formulated, dual-component systems formulated 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.

TERRATHANE™ 24-024

TerraThane™ 24-024 is a 2lb hydrophobic / hydro-insensitive, MDI-based, water blown system that is formulated for exceptional spread and lifting capacity. The 24-024F's hydrophobic nature allows it to maintain exceptional physical properties even in saturated conditions.

APPLICATIONS

- Foundation Repair
- Sidewalks
- Driveways
- Pool Decks
- Patios
- Trip Hazard Mitigation
- Floor Leveling

UNIQUE ADVANTAGES

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

Reactivity at 110°F

Cream Time	2-4 seconds
Gel Time	5-7 seconds
Tack Free Time	9-11 seconds
Rise Time	16-19 seconds

Physical Properties

Physical Properties	Test Method	Free Rise
Density	ASTM D1622	2.0 pcf
Compressive Strength	ASTM D1621	26 psi
Compressive Modulus	ASTM D1621	670 psi
Tensile Strength	ASTM D1623	84 psi
Tensile Modulus	ASTM D1623	710 psi
Max Service Temp		180°F
Shear Strength	ASTM C273	38 psi
Shear Modulus	ASTM C273	200 psi

Chemical Resistance

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

Performance

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

Special Testing

NYDOT Hydro-Insensitivity test, GTP-9	100% density retention >97% comp str retention
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Component Properties

Component	B-24-024	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	560 cps at 72°F	200 cps at 72°F
Specific Gravity	1.05	1.24
Weight per Gallon	8.77 lbs	10.3 lbs
Storage Temperature	50-100°F	50-100°F

Mix Ratio

By weight... 118 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 A-side 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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