

### 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.

#### APPLICATIONS

**Bridge Approaches and Departures**  
**Highway and Streets**  
**Airport Runways and Taxiways**  
**Concrete Slab Lifting**  
**Joint Matching**  
**Void Filling**  
**Deep Soil Injection**

### TERRATHANE™ 24-6R

TerraThane™ 24-6R is a 6lb hydrophobic / hydro-insensitive, MDI-based, water blown system that is formulated for exceptional spread and lifting capacity. The hydrophobic nature of 24-6R allows it to maintain exceptional physical properties even in saturated conditions.

#### UNIQUE ADVANTAGES

**Hydrophobic / Hydro-Insensitive**  
**Contains No Solvents**  
**Strengthens Loose Soil**  
**Water Blown System**

#### Reactivity at 110°F

<b>Cream Time</b>	5 seconds
<b>Gel Time</b>	16 seconds
<b>Tack Free Time</b>	23 seconds
<b>Rise Time</b>	35 seconds
<b>Cure Time</b>	95% @ 30min. Full cure @ 24hrs

#### Physical Properties

Physical Properties	Test Method	Free Rise	Restrained
Density	ASTM D1622	6.0 pcf	6 – 7 pcf
Compressive Strength	ASTM D1621	121 psi	130 psi
Compressive Modulus	ASTM D1621	3391 psi	4050 psi
Tensile Strength	ASTM D1623	168 psi	185 psi
Tensile Modulus	ASTM D1623	2794 psi	3100 psi
Water Absorption	ASTM D2842	≤0.04 lbs/ft <sup>2</sup>	≤0.04 lbs/ft <sup>2</sup>
Closed Cell Content		>94%	>94%
Max Service Temp		200°F	200°F
Elongation	ASTM D1623	7%	
Shear Strength	ASTM C273	135 psi	145 psi
Shear Modulus	ASTM C273	1250 psi	1410 psi

#### Chemical Resistance

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

#### Performance

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

### Special Testing

NYDOT Hydro-Insensitivity test, GTP-9		>97% density retention >94% comp strength retention	
Dimensional Stability, % volume change, 28 days aging (ASTM D-2126)	Heat age at 158°F	Freezer at -20°F	Humid age at 100% RH & 120°F
	-1.4%	-0.1%	-1.0%

### Component Properties

Component	B-24-6R	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	700 cps at 72°F	200 cps at 72°F
Specific Gravity	1.0602	1.24
Weight per Gallon	8.84 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 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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