

### 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

**Foundation Repair**

**Sidewalks**

**Driveways**

**Pool Decks**

**Patios**

**Trip Hazard Mitigation**

**Floor Leveling**



NSF/ANSI/CAN 61 – 5".

\*Upon request

### TERRATHANE™ 24-010

TerraThane™ 24-010 is a 2.8lb water blown, MDI-based geotechnical polyurethane formulated for quick expansion and pinpoint control for lifting and leveling. 24-010 is available with an NSF/ ANSI 61 Section 5 – 2017 certification.

#### UNIQUE ADVANTAGES

**Fast Reactivity**

**High Control for Pinpoint Lifting**

**Certified to NSF/ANSI-61**

**Strengthens Loose Soil**

**Water Blown System**

### Reactivity at 110°F

|                       |                                 |
|-----------------------|---------------------------------|
| <b>Cream Time</b>     | 1 – 2 seconds                   |
| <b>Gel Time</b>       | 6 – 8 seconds                   |
| <b>Tack Free Time</b> | 11 – 14 seconds                 |
| <b>Rise Time</b>      | 16 – 19 seconds                 |
| <b>Cure Time</b>      | 95% @ 30min. Full cure at 24hrs |

### Chemical Resistance

*Solvents...* **Excellent**

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

### Performance

*Wet Environments...* **Poor**

*Lifting Capacity...* **Excellent**

### Physical Properties

| Physical Properties  | Test Method | Free Rise                 | Restrained                |
|----------------------|-------------|---------------------------|---------------------------|
| Density              | ASTM D1622  | 2.8 pcf                   | 3.5 – 4 pcf               |
| Compressive Strength | ASTM D1621  | 27 psi                    | 55 – 65 psi               |
| Compressive Modulus  | ASTM D1621  | 695 psi                   | 1700 psi                  |
| Tensile Strength     | ASTM D1623  | 66 psi                    | 100 – 120 psi             |
| Tensile Modulus      | ASTM D1623  | 100 psi                   |                           |
| Water Absorption     | ASTM D2842  | ≤0.04 lbs/ft <sup>2</sup> | ≤0.04 lbs/ft <sup>2</sup> |
| Closed Cell Content  |             | >90%                      | >90%                      |
| Max Service Temp     |             | 180°F                     | 180°F                     |
| Elongation           | ASTM D1623  | 7%                        |                           |
| Shear Strength       | ASTM C273   | 38 psi                    |                           |
| Shear Modulus        | ASTM C273   | 490 psi                   |                           |
| Flexural Strength    | ASTM D790   | 56 psi                    |                           |
| Flexural Modulus     | ASTM D790   | 1279 psi                  |                           |

### Component Properties

| Component                   | B-24-010           | A2-000             |
|-----------------------------|--------------------|--------------------|
| Appearance                  | Transparent Liquid | Clear Brown Liquid |
| Brookfield Viscosity @20rpm | 600 cps at 72°F    | 200 cps at 72°F    |
| Specific Gravity            | 1.08               | 1.24               |
| Weight per Gallon           | 9.01 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<br>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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