



Earth Contact Products
 15612 S Keeler Terrace
 Olathe, KS 66062
 (800) 327-0007

P2-486

Technical Data Sheet

TERRATHANE™ Polyurethanes

TerraThane™ Polyurethanes by NCFI are uniquely formulated for a variety of geotechnical applications. Each batch goes through stringent testing and quality assurance standards to ensure reliability in the field.

24-486 APPLICATIONS

- Concrete Slab Raising
- Soil Load Bearing Capacity Increase
- Little to No Water Present
- Under-Slab Void Filling
- Cavity Filling
- Joint Matching

About 24-486

TerraThane™ 24-486 is a plural component, water blown, all PMDI-based, nominal 4 pcf density, polyurethane foam system designed for concrete slab raising, under-slab void fill and cavity fill applications. 24-486 is formulated for optimal spread and flow with substantial structural stability once cured.

Reactivity at 130°

Cream Time	7 second
Gel Time	20 Seconds
Tack Free Time	29 seconds
Rise Time	45 seconds

Physical Properties

Physical Properties	Test Method	Free Rise
Density	ASTM D1622	3.7 pcf
Compressive Strength	ASTM D1621	57.8 psi
Compressive Modulus	ASTM D1621	1600 psi
Tensile Strength	ASTM D1623	76 psi
Tensile Modulus	ASTM D1623	135 psi
Water Absorption	ASTM D2842	≤ 0.04 lbs/ft ²
Closed Cell Content		>90%
Max Service Temp		200°F
Elongation	ASTM D1623	5.1%
Shear Strength	ASTM C273	61.5 psi
Shear Modulus	ASTM C273	358 psi
Flexural Strength	ASTM D790	65.1 psi
Flexural Modulus	ASTM D790	1376 psi



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Performance

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

Chemical Resistance

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

Component Properties

Component	B-24-030	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @ 20rpm	620 cps at 72°	200 cps at 72°
Specific Gravity	1.07	1.24
Weight per Gallon	8.9 lbs	10.3 lbs
Storage Temperature	40° - 90°F	50° - 110°F

Mix Ratio

By weight... 100 parts poly : 115 parts iso

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

Processing Parameters

ISO Temperature	90° - 130°F
Poly Temperature	90° - 130°F
Mixing Pressure	Minimum 1000 static, 800 dynamic psi

Storage and Handling

Store the poly from 50°F to 90°F. Avoid moisture contamination during storage, handling, and processing. For both components, pad containers and day tanks with either nitrogen or dry air (desiccant cartridge or air dryer @ -40°F dew point). For optimum shelf life, the recommended storage temperature for iso is 50°F to 110°F. **Do not expose iso to lower temperatures – freezing may occur.** Store components at 70°F to 90°F for several days prior to use to minimize components being too viscous at time to take to field. Shelf life is 6 months 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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