



# TERRA-LOK™ 24-120

## Technical Data Sheet

### TERRA-LOK™ Product Line

The TERRA-LOK™ product line is comprised of single-component, low-viscosity systems formulated for soil stabilization or permeation grouting. Each batch goes through stringent testing and quality assurance standards to ensure reliability in the field.

### TERRA-LOK™ 24-120

TERRA-LOK™ 24-120 is a low viscosity single-component hydrophobic polyurethane used for increasing the load bearing capacity of loosely bound soils, filling voids and I/I mitigation. Ideal for stopping active or flowing water leaks and eliminating water seepage through cracks in stationary concrete structures and assets. Based on the application, the 24-120 requires the use of REG CAT or FAST CAT catalyst.

#### APPLICATIONS

- Soil Stabilization**
- Permeation Grouting**
- Storm & Sanitary Infrastructure**
- Seawalls & Bulkheads**
- Manholes**
- Tunnels & Subgrade Utility Assets**

#### UNIQUE ADVANTAGES

- Single Component System**
- Low-Viscosity**
- Variable Reaction Times**
- High Unconfined Expansion**
- Exceptional Strength**
- Hydrophobic**

### Physical Properties

Physical Properties	Test Method	Medium (60%Solids)	Results
Density	ASTM D1622	Fine Sand	55 pcf
Compressive Strength @ 10%	ASTM D1621	Fine Sand	2490 psi
Compressive Modulus @Max	ASTM D1621	Fine Sand	1370 psi
Tensile Strength	ASTM D1623	Fine Sand	130 psi
Shear Strength	ASTM D273	Fine Sand	550 psi
Expansion		Fine Sand	Up to 40x or 4,000%

### Component Properties

Component	A -24-120	B-24-120 Activator
Brookfield Viscosity @72°F	120 – 180 cps	10 - 20 cps
Specific Gravity	1.12	0.9
Weight per Gallon	9.35 lbs	7.51 lbs
Appearance	Light Brown Color	Transparent Yellow
Shelf Life	6 months	6 months

### Regular Catalyst Reaction Properties

Weight % Activator	Activator / Gal	Cream (sec)	Gel (sec)	Rise (sec)
0.5	0.06 oz	22	128	240
1.0	1.3 oz	20	123	180
4.0	5.0 oz	17	96	100
10.0	12.5 oz	3	42	60

### Fast Catalyst Reaction Properties

Weight % Activator	Activator / Gal	Cream (sec)	Gel (sec)	Rise (sec)
0.5	0.06 oz	8	30	50
1.0	1.3 oz	7	22	36
4.0	5.0 oz	6	11	20

### 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.

The Information contained herein is believed to be reliable, but no representations, guarantees, or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained there from. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variation in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the application disclosed. Full-scale testing and end product performance are the sole responsibility of the user. NCFI Polyurethanes shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond NCFI's direct control. NCFI MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendations, nor as an inducement to practice any patented invention without permission of the patent owner.