

**NCFI SOIL STABILIZER SYSTEM  
24-015**

**DESCRIPTION:**

NCFI 24-015 is a low viscosity, polyurethane injection resin designed to stabilize soil. When mixed with catalyst and injected, it migrates through loose soil and into below-grade voids. As it comes into contact with moisture in the soil, NCFI 24-015 reacts and expands to form a rigid foam. The foam encapsulates loose soil, fills voids, and forms a solid, water-tight barrier.

**DISTINGUISHING CHARACTERISTICS:**

- Stabilize soil before excavation
- Seawall Stabilization and strengthening
- Stabilize and remediate water through earthen dams
- Seal leaks in sub-grade walls
- Soil strengthening for tie back anchors

**UNIQUE ADVANTAGES:**

- Contains No Solvents
- Very Low Viscosity for Good Penetration
- Cure Time Controlled by Catalyst Ratio
- Encapsulates and Strengthens Loose Soil
- Forms a Water-tight Barrier to Stop Water Migration
- Good Resistance to Chemicals
- Contains no TDI
- 1100 psi Compressive Strength in sand

**TYPICAL RESIN PROPERTIES:**

	<u>24-015 A</u> <u>Soil Stabilizer</u>	<u>24-015 R</u> <u>Activator</u>
Viscosity	100 cps	50 cps
S G	1.192	1.218
Weight/gallon	9.93 lbs	10.15 lbs.
Appearance	Lt Brown liquid	clear, light yellow liquid
Shelf Life	6 months	6 months

**TYPICAL REACTION PROPERTIES:**

Hand Mix @ 72°F, 25g Stabilizer, 1g Water

<u>Weight %</u> <u>Activator</u>	<u>Cream (s)</u>	<u>Rise (s)</u>
0.5	155	220
1.0	68	150
4.0	20	92
10.0	9	48

The above values are average values obtained from laboratory experiments and should serve only as guidelines.

## NCFI 24-015

### ADDITIVE GUIDELINES:

<u>Wt %</u> <u>Activator</u>	<u>ounces Activator</u> <u>per gallon Soil</u> <u>Stabilizer</u>
0.5	0.6
1	1.3
4	5.0
10	12.5

### NOTES:

NCFI 24-015 R is a catalyst that causes the Soil Stabilizer to react with ambient moisture. Once activated, NCFI 24-015 A will react with any available water, including humidity in the air. To minimize loss caused by its reaction with ambient moisture, mix and use material in small batches. If a crust forms on the top of the mixed material, it will act as a temporary seal and inhibit curing of the liquid below the crust. If a crust forms, leave it intact until the liquid under the crust has been pumped. Once NCFI 24-015 A has been activated with NCFI 24-015 R, it should never be left in pumps or stored for more than a few hours.

### SAFE HANDLING OF LIQUID COMPONENTS:

Use caution in removing bungs from the container. Loosen the small bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapors. In case of chemical contact with eyes, flush with water for at least 15 minutes and get medical attention. For further information refer to publication AX-119 "MDI-Based Polyurethane Foam Systems: Guidelines for Safe Handling and Disposal" published by The Center For The Polyurethanes Industry, 1300 Wilson Blvd, Suite 800, Arlington, VA 22209.

### STORAGE AND USE OF CHEMICALS:

Keep temperature of chemicals at 70°F for several days before use. Cold chemicals can cause poor mixing, pump cavitation or other process problems due to higher viscosity at lower temperatures. Absolutely no thinners should be added to this 100% solids system. Viscosity can be reduced by an increase in temperature. The 'A' component is sensitive to exposure to moisture. Keep drums tightly closed when not in use and under nitrogen pressure of 2 - 3 psi after they have been opened. Prolonged exposure to temperatures below 50°F can cause the 'A' component to freeze. Do not store in direct sunlight.

The information on our data sheets is to assist customers in determining whether our products are suitable for their applications. The customers must satisfy themselves as to the suitability for specific cases. NCFI Polyurethanes warrants only that the material shall meet its specifications; this warranty is in lieu of all other written or unwritten, expressed or implied warranties and NCFI Polyurethanes expressly disclaims any warranty of merchantability, fitness for a particular purpose, or freedom from patent infringement. Accordingly, buyer assumes all risks whatsoever as to the use of the material. Buyer's exclusive remedy as to any breach of warranty, negligence or other claim shall be limited to the purchase price of the material. Failure to adhere strictly to any recommended procedures shall relieve NCFI Polyurethanes of all liability with respect to the material or the use thereof.