TECHNICAL DATA SHEET

VORTEX

MAVERICK 2560

Formerly known as I & I Guard®-SSF 5

5.0 lb Hydrophobic / Hydro-insensitive Grout for Where Spreading and Lifting are Required

CHEMICAL RESISTANCE

- **Solvents:** Excellent
- **Mold and Mildew:** Excellent

PERFORMANCE

- **Wet Environments:** Excellent
- **Lifting Capacity:** Excellent

REACTIVITY AT 110°F (24-044)

- **Cream Time:** 5-8 sec
- **Gel Time:** 11-15 sec
- **Tack Free Time:** 16-19 sec
- **Rise Time:** 25-30 sec

SPECIAL TESTING

- **NYDOT Hydro-Insensitivity test, GTP-9**
  >97% density retention
  >94% comp str retention

DIMENSIONAL STABILITY

% volume change, 28 days aging (ASTM D-2126)

- **Heat age at 158°F: -1.4%**
- **Freezer at -20°F: -0.1%**
- **Humid age at 100% RH and 120°F: -1.0%**

DESCRIPTION

Maverick 2560 (soil stabilizing foam) is a 5 lb hydrophobic/hydro-insensitive, MDI-based, water blown system that is formulated for exceptional spread and lifting capacity. The hydrophobic nature of Maverick 2560 allows it to maintain exceptional physical properties even in saturated conditions. Available with NSF/ANSI 61 Section 5 – 2017 certification.

MAVERICK 2560

Maverick 2560 is comprised of uniquely formulated, dual-component system 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**

UNIQUE ADVANTAGES

- **Hydrophobic / Hydro-Insensitive**
- **Certified to NSF/ANSI-61**
- **Contains No Solvents**
- **Strengthens Loose Soil**
- **Water Blown System**

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PHYSICAL PROPERTIES

Physical Properties	Test method	Free Rise
Density	ASTM D1622	5.0 pcf
Compressive Strength	ASTM D1621	112 psi
Compressive Modulus	ASTM D1621	2200 psi
Tensile Strength	ASTM D1623	128 psi
Tensile Modulus	ASTM D1623	2900 psi
Water Absorption	ASTM D2842	≤0.04 lbs/ft²
Closed Cell Content		>94%
Max Service Temp		200°F
Elongation	ASTM D1623	7%
Shear Strength	ASTM C273	72 psi
Shear Modulus	ASTM C273	800 psi

COMPONENT PROPERTIES

Component	B-24-011	A2-000
Appearance	Transparent Liquid	Clear Brown Liquid
Brookfield Viscosity @20rpm	550 cps at 72°F	200 cps at 72°F
Specific Gravity	1.053	1.24
Weight per Gallon	8.79 lbs	10.3 lbs
Storage Temperature	50-100°F	50-100°F

PROCESSING PARAMETERS

- **A-side Temperatures: 100 – 120°F**
- **B-side Temperatures: 100 – 120°F**
- **Mixing Pressure: 1000 psi static, 800 psi dynamic**

MIX RATIO

- **By weight: 118 parts A-side: 100 parts B-side**
- **By volume: 100 parts A-side: 100 parts B-side**

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 Vortex 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 Vortex for safety considerations, polyurethane system selection and application recommendations.