# TECHNICAL DATA SHEET

VORTEX

MAVERICK STABILIZATION

## Structural Foams & Grouts to Boost Strength & Load-Bearing Capacity

### DESCRIPTION

Maverick Stabilization grouts improve soil strength and load-bearing capacity through controlled expansion and soil bonding. Available in single and dual-component formulations to perform in dry or saturated conditions.

### FEATURES AND BENEFITS

- **Low Viscosity**
- **No agitation necessary**
- **High Strength**
- **Hydro insenstive**
- **Quick return to service**
- **Environmentally safe**

### REACTIVITY AT 110°F | 43°C

- **Cream time — 7 seconds**
- **Gel time — 13 seconds**
- **Tack free time — 19 seconds**
- **Rise time — 26 seconds**

### PROCESSING PARAMETERS

- **ISO temperature — 100°-120°F | 38°-49°C**
- **Poly temperature — 100°-120°F | 38°-49°C**
- **Mixing Pressure — 800 psi | 55 bar static, 600 psi | 41 bar dynamic, 1,000/800 psi | 69/55 bar preferred**

### DIMENSIONAL STABILITY

% volume change, 28 days aging (ASTM D-2126)
>96% density retention
>93% comp str retention

- **Heat age at 158°F | 70°C: -1.5%**
- **Freezer at -20°F | -29°C: -0.1%**
- **Humid age at 100% RH and 120°F | 49°C: -1.0%**

### APPLICATIONS

- **Bridge Approaches and Departures Highway and Streets**
- **Airport Runways and Taxiways Concrete Slab Lifting**
- **Joint Matching**
- **Void Filling**
- **Deep Soil Injection**

### FORMULATIONS

- **S-1100: Hydrophobic migration stabilization foam**
- **S-2360: 3 lb. soil stabilization foam**
- **S-2460: 4 lb. soil stabilization foam**
- **S-2560: 5 lb. soil stabilization foam**

### SAFETY

Always use safety glasses and protective clothing including gloves when using this product to avoid contact with skin and eyes. Before use review respective Safety Data Sheet.

### PERFORMANCE

- **Wet Environments — Excellent**
- **Lifiting Capacity — Excellent**

### CHEMICAL RESISTANCE

- **Solvents — Excellent**
- **Mold and Mildew — Excellent**

QUADEX® A VORTEX COMPANY REPAIR MATERIALS | MAVERICK GROUTS

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VORTEX

## STORAGE AND HANDLING

Store the poly from 50°F to 90°F | 10°C to 32°C. 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 | -40°C dew point). For optimum shelf life, the recommended storage temperature for iso is 50°F to 110°F | 10°C to 43°C. Do not expose iso to lower temperatures – freezing may occur. Store components at 70°F to 90°F | 21°C to 32°C for several days prior to use to minimize components being too viscous at time to take to field. Shelflife of resin is 6 months and ISO is 2 years for factory sealed containers.

## MIX RATIO

By weight: 100 parts poly : 118 parts iso
By volume: 100 parts poly : 100 parts iso

## PACKAGING

10 gal | 37.8 L unit, 100 gal | 378.5 L units, 500 gal | 1892.7 L units

## DISPOSAL

Dispose of containers in adherence with local regulations.

## TECHNICAL DATA

### TYPICAL PERFORMANCE CHARACTERISTICS*

| PHYSICAL PROPERTIES | TEST METHOD | FREE RISE | RESTRAINED |
|---|---|---|---|
| Density | ASTM D1622 | 4.0 pcf \| 64.0 kg/m$^3$ | 5-6 pcf \| 80.1-96.1 kg/m$^3$ |
| Compressive Strength | ASTM D1621 | 80 psi \| 5.5 bar | 80-100 psi \| 5.5-6.9 bar |
| Compressive Modulus | ASTM D1621 | 1900 psi \| 131 bar | 2400-3200 psi \| 165.5-220.6 bar |
| Tensile Strength | ASTM D1623 | 85 psi \| 5.8 bar | 100-120 psi \| 6.9-8.3 bar |
| Tensile Modulus | ASTM D1623 | 1446 psi \| 99.7 bar | 3100 psi \| 213.7 bar |
| Water Absorption | ASTM D2842 | ≤ 0.04 lbs/ft$^2$ \| 0.2 kg/m$^2$ | ≤ 0.04 lbs/ft$^2$ \| 0.2 kg/m$^2$ |
| Closed Cell Content | | >92% | >92% |
| Max Service Temp | | 200°F \| 93°C | 200°F \| 93°C |
| Elongation | ASTM D1623 | 5.1% | |
| Shear Strength | ASTM C273 | 52 psi \| 3.6 bar | 90 psi \| 6.2 bar |
| Shear Modulus | ASTM C273 | 602 psi \| 41.5 bar | 677 psi \| 46.7 bar |
| Flexural Strength | ASTM D790 | 90 psi \| 6.2 bar | 139 psi \| 9.6 bar |
| Flexural Modulus | ASTM D790 | 1625 psi \| 112 bar | 3147 psi \| 216.9 bar |

**The values stated in inch-pound units are to be regarded as the standard. The values given in International System are for information only.*

## COMPONENT PROPERTIES

| Component | Part A | Part B |
|---|---|---|
| Appearance | Transparent Liquid | Clear Brown Liquid |
| Viscosity (22°C) | 500 cP at 72°F \| 22°C | 200 cP at 72°F \| 22°C |
| Specific Gravity | 1.07 | 1.24 |
| Weight per Gallon | 8.9 lbs \| 4 kg | 10.3 lbs \| 4.7 kg |
| Storage Temperature | 50°-100°F \| 10°-38°C | 50°-110°F \| 10°-43°C |