TECHNICAL DATA SHEET

VORTEX

MAVERICK VOID FILL

Expanding, Migrating Structural Foams for Broad Range of Infrastructure

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%

DESCRIPTION
Maverick Void Fill grouts are engineered to efficiently fill unknown or inaccessible voids caused by erosion or loss of support, high expansion, polyurethane, foams, displace, water, and consolidate surrounding soils.

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

FORMULATIONS
- V-1190: Hydrophobic single component foam
- V-1100: Hydrophobic migration stabilization foam
- V-2360: 3 lb. soil stabilization foam
- V-2460: 4 lb. soil stabilization foam
- V-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

Distributed By MAXLINER®

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