DESCRIPTION
Injected as a single component, catalyzed AV-278 Low Vis Hydro is a moisture-activated MDI-based polyurethane resin. The chemical reaction of this product is catalyzed by using AV-279 Low Vis Accel and uses moisture as an initiator. AV-278 was designed with soil permeation in mind – low viscosity for penetration with very high expansion to fill voids, stop active or potential water leaks, and stabilize soils. AV-278 withstands wet/dry cycles, permeates well, and reacts with water to form a dense, closed-cell, impermeable semi-rigid foam.

APPLICATION
- Ground modification/slope stability for prevention of landslides, erosion, or any place where site conditions or project requirements dictate modification of the existing soil properties
- Fills voids on the exterior of below-grade structures
- Stops leaks in below-grade structures

FEATURES AND BENEFITS
- Low viscosity allows for excellent permeation
- Expands up to 4,000%
- Solvent-free
- Mixed as a single component
- Controlled reaction time by adjusting AV-279 volume
- Withstands wet/dry cycles

GROUTING TECHNIQUES
- Probe Grouting
- Curtain Grouting
- Pressure Injection

HOW IT WORKS
Injected into the soil as a single component, the low viscosity resin reacts with moisture to form a dense, closed-cell, impermeable semi-rigid foam.

ADDITIVES
- AV-279 Low Vis Accel – catalyst, 78 oz. (2.3 L)

PACKAGING
Product packaged by weight based on specific gravity.
- Drum = Net Wt. 487 lbs. / Volume 46.4 – 49.8 gal.
- Pail = Net Wt. 44 lbs. / Volume 4.4 – 4.5 gal.
- Gallon = Net Wt. 8 lbs. / Volume ~1 gal.

SHIPPING
- Motor Class 55
- Non-Hazardous
- Air freight available

CLEANING PRODUCTS
- AV-208 Acetone, Technical Grade (CAS# 67-64-1) – removes moisture from equipment
- AV-284 Pump Wash (Proprietary Blend) – removes uncured resin from pump and hose
- AV-222 Cleaner (Proprietary Blend) – removes cured resin from equipment

STORAGE
Store in temperatures within or near 45°F – 95°F (7°C – 35°C) in a dry atmosphere.

PROPERTIES

<table>
<thead>
<tr>
<th>AV-279 – UNCURED</th>
<th>AV-278 – CURED</th>
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<tbody>
<tr>
<td>Appearance:</td>
<td>Brown resin</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>25 – 100 cP @ 72°F (22°C)</td>
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<tr>
<td>Flash Point:</td>
<td>&gt;200°F (&gt;93°C)</td>
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<tr>
<td>Specific Gravity: 1.171 @ 72°F (22°C) ± 3%</td>
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<tr>
<td>Specific Weight: 72.8 lbs./ft³ (9.74 lbs./gal) ± 3%</td>
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AV-279 Low Vis Hydro Accelerator
- Appearance: Milky colored rigid foam
- Compressive Strength: TBD
- Toxicity: Non-toxic

MIX PROCEDURE
Depending on the desired reaction time, up to one container of AV-279 Low Vis Accel can be used (see chart below). Do not use more than one container of AV-279 Mix thoroughly, but slowly, to avoid creating bubbles in the solution (air bubbles will turn into moisture). Perform the standard cup test with site water to determine the desired reaction time.

PERFORMANCE
Flush equipment with AV-208 before and after use to remove moisture and clean equipment. Performance will be influenced by site conditions. If site temperatures are low, heat the product to recommended operating temperatures of 45°F – 95°F (7°C – 35°C) and/or increase catalyst amount by 1% – 2%. Do not use open flame as a heat source. Excess amounts of AV-279 may adversely affect performance. Because catalyzed resin will react to moisture from the air, use product soon after mixing for best results.

SAFETY
Always use OSHA-approved personal protective equipment (PPE). Refer to the SDS for complete safety precautions. The SDS is available by request or via online download at www.AvantiGrout.com.

**NOTICE**

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<thead>
<tr>
<th>Gel (Cure) Times for AV-278 Low Vis Hydro (Min:Sec)</th>
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<tbody>
<tr>
<td>Temperature (°F)</td>
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<tr>
<td>------------------</td>
</tr>
<tr>
<td>40°F</td>
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<tr>
<td>50°F</td>
</tr>
<tr>
<td>60°F</td>
</tr>
<tr>
<td>70°F</td>
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