DESCRIPTION
AV-275 Soilgrou™ is a low viscosity, moisture-activated, MDI-based polyurethane resin whose chemical reaction is catalyzed by mixing AV-276 Solicat™ with AV-275. Injected as a single component, AV-275 is designed to react quickly with moisture to bind together and waterproof loose granular soils and fill voids. AV-275 forms a dense, impermeable rigid soil/grout matrix, withstands wet/dry cycles, and permeates well.

APPLICATION
• Fills voids on the exterior of below-grade structures
• Stops high flows in below-grade structures
• Stabilizes soil to prevent soil erosion, sink holes, sinking foundations, and infiltration of water and silty soils

FEATURES AND BENEFITS
• NSF/ANSI/CAN 61 Drinking Water Systems Component Certified
• Low viscosity allows for excellent permeation
• Free rise expands up to 3,000%
• Pumped as a single component (pre-mixed with AV-276)
• Controllable reaction time by adjusting AV-276 volume
• Withstands wet/dry cycles

GROUTING TECHNIQUES
• Curtain Grouting
• Probe Grouting
• Pressure Injection

HOW IT WORKS
AV-275 Soilgrou uncured resin must be injected into a confined space. Fill the space at least halfway with unreacted resin. The resin will react with moisture to form a resilient seal accomplished by three mechanisms: the resin seeks out water in the space and adheres to the surface, then begins to expands in the confined space to form a tight, high density compression seal, while the network of compressed grout material within all the cracks/joints forms a mechanical lock.

CATALYSTS
• AV-276 Solicat – catalyst, 32 oz. (.95 L) container

PACKAGING - Product packaged by weight based on specific gravity.
Drum  Net Wt. 484 lbs. (220 kg)
Pail   Net Wt. 44 lbs. (20 kg)
Gallon Net Wt. 8 lbs. (3.6 kg)
Dual Cartridge AV-275 – 750 ml AV-276 – 75 ml

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

CLEANING PRODUCTS
• AV-208 Technical Grade Acetone™ (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 between 45°F – 95°F (7°C – 35°C) in a dry atmosphere. Keep lid tightly closed when not in use. Packaged under dry nitrogen to keep moisture out and extend shelf life.

MIX PROCEDURE
Typically, one container of AV-276 Solicat is used per 5-gallon container of AV-275 Soilgrou. Depending on the desired reaction time, AV-276 may be doubled. Mix thoroughly, but slowly, to avoid creating bubbles in the solution. Perform the standard cup test with site water to determine the desired reaction time.

PROPERTIES*
AV-275 – UNCURED
Appearance: Black/brown liquid
Corrosiveness: Non-Corrosive
Solids: 100%
Viscosity: 30-55 cP @ 77°F (25°C) ASTM D-4889
Flash Point: 309.2°F (154°C)
Specific Gravity: 1.114 @ 72°F (22°C) ± 3%
Density: 9.3 lb./gallon ± 3% 1,114 kg/m³ ± 3%
AV-275 – CURED†
Tensile Strength: 758.423 kPa (110 psi) ± 3%
Density: 1,074 kg/m³
Bending Strength: 213 psi
Bond Strength: 99 psi
Shrinkage: 0%
Toxicity: Non-Toxic
†Cured properties vary depending on application and field conditions.

AV-276
Appearance: Light yellow liquid
Viscosity: 15-32 cP @ 70°F (21°C)
Flash Point: >208°F (93.3°C)

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 60°F – 90°F (16°C – 32°C) and/or increase catalyst amount by 1% – 2%. Do not exceed more than 64 oz. of AV-276 Solicat per pail of AV-275 Soilgrou. Do not use open flame as a heat source. Excess amounts of AV-276 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 avantigrout.com

NOTICE
The data, information and statements contained herein are believed to be reliable, but are not construed as a warranty or representation for which Avanti International assumes any legal responsibility. Since field conditions vary widely, users must undertake sufficient verification and testing to determine the suitability of any product or process mentioned in this or any other written material from Avanti for their own particular use. NO WARRANTY OF SUITABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE. In no case shall Avanti International be liable for consequential, special, or indirect damages resulting from the use or handling of this product.

AV-275 Soilgrou™ is tested and certified by WQA against NSF/ANSI/CAN 61 Drinking Water System Components
For product use restrictions visit www.wqa.org

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*Laboratory Results

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<thead>
<tr>
<th>Gel (Cure) Times for AV-275 Soilgrou (Min:Sec)</th>
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<tbody>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>40°F / 4°C</td>
</tr>
<tr>
<td>50°F / 10°C</td>
</tr>
<tr>
<td>60°F / 15°C</td>
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<tr>
<td>70°F / 21°C</td>
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