Material Testing Results

Date: Oct 13, 2020
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Manufacturer: SpexCrete
29299 Clemens Rd #1-L
Westlake, OH 44145
Contact: Doug Gorski
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Material: SpexCrete 450
Lot #: 090220

Material Application: Lightweight Underlayment

Mfg. Plant: Westlake, OH
Std. Bag Weight: 33 #

Testing Conditions: Outside Temperature: 69*F
Humidity: 26%

Equipment Used: Model: CG570
Mixer: Paddle
Pump: 2TJ6 Progressing Cavity
Power: Hydraulic

Std. Mix Ratios:
Water Temp: 64.4 *F

Batching Method: Quantity Material: 56.36 lbs.
Quantity Water: 25.03 lbs

Mixing Time: 240 Seconds
Batch Temp: 76.3 *F

Specific Gravity: SG = n/a
Flow Cone n/a Seconds

Pumping Method: Recirculated through hose, recorded pressures at various flow rates.

Flow Rate/Pressure:

<table>
<thead>
<tr>
<th>Hose (1 1/4&quot; x 50')</th>
<th>Flow Rate</th>
<th>Pressure</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3.55 GPM</td>
<td>0 PSI</td>
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<tr>
<td></td>
<td>6.34 GPM</td>
<td>0 PSI</td>
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<td></td>
<td>9.41 GPM</td>
<td>0 PSI</td>
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<tr>
<td></td>
<td>12.79 GPM</td>
<td>0 PSI</td>
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<td></td>
<td>16.18 GPM</td>
<td>2 PSI</td>
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<td>19.3 GPM</td>
<td>4 PSI</td>
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<td></td>
<td>22.74 GPM</td>
<td>8 PSI</td>
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<tr>
<td>Hose (           )</td>
<td>GPM</td>
<td>PSI</td>
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<td>PSI</td>
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<tr>
<td></td>
<td>GPM</td>
<td>PSI</td>
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</tbody>
</table>

Observations:
Mixed and pumped with low hydraulic pressures, pumped very easy
Small foam pellets ~2 mm, mixed in easy, some floated during clean-up
Estimated maximum pumping distance over 350 feet

Results:
ChemGrout rates the pumpability of this product as a "10" out of 10, with 10 being the easiest. ChemGrout recommends the CG050 pump or higher.