Test Report

Report No.: KB-17-01621A-1
Page No.: 1 OF 2
Date of Report: Apr. 21, 2017

Applicant: Radical Technology Products Asia Co., Ltd.
Supplier: Radical Technology Products Asia Co., Ltd.
Sample Name: BH599-10 Cement-based waterproofing agent
Sample Submitted By: Radical Technology Products Asia Co., Ltd. (Elain Ou)
Date of Sample Received: Feb. 20, 2017
Date of Testing: Feb. 20, 2017 – Apr. 21, 2017
Remark: The information mentioned in the above section is provided by Client (Exclude Date of Sample Received and Date of Testing)

Test Conditions:

1. Diffusion test ratio:

<table>
<thead>
<tr>
<th>Concrete of Mixing Rate (weight)</th>
<th>Water</th>
<th>Cement (Type I)</th>
<th>Coarse aggregate (3/4&quot;)</th>
<th>Coarse aggregate (3/8&quot;)</th>
<th>Coarse sand</th>
<th>Fine sand</th>
<th>Admixture</th>
<th>Unit Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg/m</td>
<td>174</td>
<td>307</td>
<td>495</td>
<td>493</td>
<td>625</td>
<td>266</td>
<td>3.1</td>
<td>2363</td>
</tr>
</tbody>
</table>

2. Mortars of Mixing Rate (By Weight) (Compressive Strength):

<table>
<thead>
<tr>
<th>Test group</th>
<th>Cement (Type I)</th>
<th>Graded Standard Sand</th>
<th>Water</th>
<th>Admixtures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control Mix</td>
<td>200</td>
<td>400</td>
<td>120</td>
<td>-----</td>
</tr>
<tr>
<td>Test Mix</td>
<td>200</td>
<td>400</td>
<td>116</td>
<td>4</td>
</tr>
</tbody>
</table>

Note: Waterproofing agent is liquid, adding the proportion of cement weight percentage 2%.

Test Results:

<table>
<thead>
<tr>
<th>Test Items</th>
<th>Test Method</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive Strength (kg/cm²)</td>
<td>Refer. ASTM C109/C109M-13</td>
<td>Control group: 446.0, Test group: 550.8</td>
</tr>
<tr>
<td>Compressive Strength Ratio(%)</td>
<td>----</td>
<td>Test group ×100%: 123.5, Control group:</td>
</tr>
<tr>
<td>Chloride ion content (%)</td>
<td>Refer. ASTM D512 C</td>
<td>Control group: 0.0049</td>
</tr>
<tr>
<td>Diffusion test (mm) note.1</td>
<td>Refer. DIN1048-S(1991)</td>
<td>Control group: 34.24, Test group: No penetration</td>
</tr>
<tr>
<td>Water absorption(%) (23°C, 24h) note.3</td>
<td>Refer. ASTM D570-98(2010)</td>
<td>Control group: 1.15</td>
</tr>
<tr>
<td>Infiltration depth (mm)</td>
<td>Customer provided</td>
<td>25.11</td>
</tr>
</tbody>
</table>

The required specification(s) offered in this test report is/are for reference only. The conformity judgment is at the Applicant's final verdict.
Material & Engineering Laboratory-Kaohsiung

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Note:
1. Control group: 105 °C oven drying, the machine pressure 0.5MPa pressure for 8 hours.
   Test group: 105 °C oven drying, after cooling by the hydraulic surface soaking agent, placed
   (Temperature 23.0 ± 2 °C Humidity 50.0 ± 4%) after 24 hours of curing, on the machine pressure
   0.5MPa pressure for 8 hours.
2. The coating is applied to the surface of the cylindrical body and allowed to stand for half an hour to one
   hour at a temperature of 20 °C, placed constant temperature and humidity chamber (temperature 23.0 ± 2 °C
   humidity 50.0 ± 4%) conservation 10 days out, split according to the high degree of measurement depth.
3. The experiment was commissioned by Kaohsiung Polymer Laboratory (Report No: KV-17-02141)
4. This Test Report is an additional original report of KB-17-01621 C-17-03851. Issued date: Apr. 21, 2017.
5. This Test Report cancels and supersedes the Test Report No. KB-17-01621 C-17-03851,
   KB-17-01621A C-17-03851. Revised date: May 02, 2017.

The required specification(s) offered in this test report is/are for reference only.
The conformity judgment is at the Applicant's final verdict.

Signed for and on behalf of SGS Taiwan Ltd.