SUGGESTED MASTER SPECIFICATION
SECTION 03 15 13 HYDROPHILIC RUBBER WATERSTOPS

PART 1  GENERAL

1.01  SECTION INCLUDES

A. Provision of waterstops embedded in concrete and spanning control, expansion, and/or construction joints to create a continuous diaphragm to prevent fluid migration.

B. Non-metallic waterstops for use in concrete joints subjected to chlorinated water, municipal wastewater, sea water, and many waterborne chemicals.

1.02  REFERENCES

A. American Society for Testing Materials (ASTM)

1.03  DELIVERY, STORAGE, AND HANDLING

A. Store waterstops under tarps to protect from oil, dirt, sunlight, and premature exposure to water.

PART 2  PRODUCTS

2.01  MATERIALS

A. Provide SIKA HYDROTITE hydrophilic rubber waterstop as supplied by Sika, profile number (fill in profile style number).

B. The waterstop shall be a combination of chloroprene rubber and chloroprene rubber modified to impart hydrophilic properties.

C. The waterstop shall have a delay coating to inhibit initial expansion due to moisture present in fresh concrete.

D. Performance Requirements as follows:

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Required Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>ASTM D412</td>
<td>1300 PSI min.</td>
</tr>
<tr>
<td>Ultimate Elongation</td>
<td>ASTM D412</td>
<td>400% min.</td>
</tr>
<tr>
<td>Hardness (Shore A)</td>
<td>ASTM D2240</td>
<td>50 +/- 5</td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>ASTM D624</td>
<td>100 lb/inch min.</td>
</tr>
</tbody>
</table>

Chloroprene Rubber

Performance Requirements as follows:
Modified Chloroprene (Hydrophilic) Rubber

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Required Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>ASTM D412</td>
<td>350 PSI min.</td>
</tr>
<tr>
<td>Ultimate Elongation</td>
<td>ASTM D412</td>
<td>600% min.</td>
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<tr>
<td>Hardness (Shore A)</td>
<td>ASTM D2240</td>
<td>52 +/- 5</td>
</tr>
<tr>
<td>Tear Resistance</td>
<td>ASTM D624</td>
<td>50 lb/inch</td>
</tr>
<tr>
<td>Expansion Ratio</td>
<td>Volumetric Change - Distilled Water @ 70°F</td>
<td>3 to 1 min.</td>
</tr>
</tbody>
</table>

2.02 ACCESSORIES

A. Provide SIKA HYDROTITE ADHESIVE to secure waterstop to smooth, dry concrete.

B. Provide SIKA GREENSTREAK EPOXY 7300 two component epoxy gel to secure SIKA HYDROTITE to rough, wet (or dry) concrete.

C. Provide LEAKMASTER single component hydrophilic sealant to secure SIKA HYDROTITE to rough, dry concrete.

D. Provide cyanoacrylate adhesive (i.e. Super Glue) for all waterstop splices.

E. Provide LEAKMASTER in addition to cyanoacrylate adhesive at all splices for added protection (optional).

PART 3 EXECUTION

3.01 INSTALLATION

A. Cut coil ends square (or at proper angle for mitered corners) with shears or sharp blade to fit splices together without overlaps.

B. Splices shall be sealed using cyanoacrylate adhesive (super glue) and LEAKMASTER (LEAKMASTER is optional).

C. Seal any exposed open ends of SIKA HYDROTITE using LEAKMASTER.

D. Follow approved manufacturer recommendations.

END OF SECTION