

SIKA® HYDROTITE MASTER SPECIFICATION

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:

Chloroprene Rubber

| Property | Test Method | Required Limits |
|---------------------|-------------|------------------|
| Tensile Strength | ASTM D412 | 1300 PSI min. |
| Ultimate Elongation | ASTM D412 | 400% min. |
| Hardness (Shore A) | ASTM D2240 | 50 +/- 5 |
| Tear Resistance | ASTM D624 | 100 lb/inch min. |

Modified Chloroprene (Hydrophilic) Rubber

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

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

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