

## 1.0 GENERAL

### .1 Crystalline Waterproofing

- .1 Discuss use of slurry, construction joints, and admixtures with Owner prior to specifying.

### .2 Requirements Include

- .1 Provide waterproof admixture for concrete mix at foundation walls where indicated, at elevator pit and slab depressions.
- .2 Provide cementitious crystalline slurry waterproofing system with accessories where indicated and specified for a complete installation. Provide coating to concrete at minimum for the following locations:
  - .1 Construction joints, form tie holes.
  - .2 Crack repair and honeycombed pockets in concrete walls and slabs.
  - .3 To form cove at junctions of floor/wall and floor/column.
  - .4 Around pipe and drain penetrations.
- .3 Provide crystalline plugs and waterstops as indicated and specified.
- .4 Include accessories as required for a complete installation.
- .5 Materials not identified in these standards must be identified and approved by the Owner and be approved by the Authority Having Jurisdiction.

### .3 BCIT Sustainability Requirements

- .1 Mandatory Compliance: comply with allowable VOC levels for all adhesives, sealants, paints and other coatings as outlined in Division 01.

### .4 References

- .1 Building Code, latest edition.

## 2.0 QUALITY ASSURANCE

### .1 Source Quality Control

- .1 For each type of material required for the work of this section, provide materials from a single manufacturer and all products within the system specified shall be compatible.
- .2 Specify so that adequate numbers of skilled workers thoroughly trained and experienced in installation methods and who are completely familiar with specified requirements for proper performance of the work.
- .3 Pre-Installation Conference: Confirm requirement with BCIT Project Manager.

- .4 Groundwater: Specify laboratory analysis of groundwater is specified to ensure suitability of waterproofing system for installation in project conditions.
- .5 Do not install products in standing water or when it is raining.

### 3.0 MATERIALS

#### .1 Products

- .1 Admixture: Concrete Waterproofing: Crystalline system to permanently seal concrete and prevent liquids from penetrating in any direction. Additive for exterior foundation walls, added to concrete at time of batching. Acceptable products:
  - .1 Krystol Internal Membrane "KIM" by Kryton.
  - .2 Xypex Admix C-500 by Xypex.
  - .3 Or approved substitution.
- .2 Slurry: Waterproofing Membrane: Crystalline compound: non-shrink compound composed of Portland cement, very fine, treated silica sand and various active proprietary chemicals. Acceptable products:
  - .1 Krystol T1 and Krystol T2 by Kryton.
  - .2 Xypex Concentrate by Xypex.
  - .3 Or approved substitution.
- .3 Plugs: for sealing cracks and tie-holes. Acceptable products:
  - .1 Krystol Crack Repair by Kryton.
  - .2 Patch 'n Plug by Xypex.
  - .3 Or approved alternative.
- .4 Concrete Waterstop System: Cementitious Crystalline Waterproofing Concentrate System: Acceptable Products:
  - .1 Waterstop Treatment: Krystol Waterstop Treatment (K-321) by Kryton.
  - .2 Waterstop Grout: Krystol Waterstop Grout (K-322i and K-322x) by Kryton.
  - .3 Or approved substitution.

\*\*\* END OF CRYSTALLINE WATERPROOFING SECTION \*\*\*