

SECTION 03300 CONCRETE SEALER/HARDENER

Part 1-General

1.01 SECTION INCLUDES

- A. Hardening/Sealing/Densifying for concrete surfaces.

1.02 PRODUCT DESCRIPTION

- A. Pentra-Sil™ surface densifier is a lithium-based liquid compound that penetrates and reacts with calcium to form insoluble calcium silicate hydrate within the concrete.
- B. Pentra-Sil™ impregnates the surface with lithium ions that can shut down ASR (Alkali-Silica Reactivity) at the surface, and reduce the ingress of moisture to help prevent ASR from happening in the substrate. (Lithium is the only chemical element known to mitigate ASR)

1.03 QUALITY ASSURANCE

- A. EPA – Environmental Protection Agency: all components must be V.O.C. compliant.
- B. Applicator shall have received factory training and be licensed by the manufacturer.

1.04 SUBMITTALS

- A. Applicator shall furnish for approval, material specifications together with catalogs, MSDS and supporting data for the product.
- B. Supplier for Pentra-Sil™ is:
Convergent Concrete Technologies
738 North 1890 West
Provo, UT 84601
Phone: 801-375-2280
Fax: 801-375-2971
Email: sales@convergentconcrete.com

Part 2 –PRODUCTS

2.01 MATERIALS

A. Pentra-Sil™ Surface Densifier

1. Penetrant shall be a clear, penetrating, non-toxic, non-silicone, non-acrylic, non-epoxy, lithium-based material.
2. Surface shall be clean and free from debris with adequate access provided for applicator.

Part 3 – EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Preferred Concrete Curing/Application Sequence: Cure concrete before application of Pentra-Sil™ --7 day wet cure preferred or membrane forming cure such as Pentra-Cure 309™ or Pentra-Cure 1315™.
1. Alternate curing/application sequence: Pentra-Sil™ may be applied immediately after finishing operation and then a wet-cure, Pentra Cure 309™, Pentra-Cure 1315, or Bondbreaker/curing material shall be applied over the top of Pentra-Sil™ per curing material or bondbreaker manufacturer's instructions.
- B. Foreign materials that may inhibit penetration (such as curing compounds, sealers, and/or bond breakers, loose patching materials, dirt, laitance or surface oil) shall be removed.
- C. Do not apply Pentra-Sil™ to frozen, or dirty surfaces or to standing water.
- D. Clean and prepare surfaces in accordance with the manufacturer's installation/application instructions.

3.02 APPLICATION

Application work shall be performed only by a licensed, certified applicator of the product.