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This section includes editing notes to assist the user in editing the section to suit project requirements. These notes are included as hidden text, and can be revealed or hidden by the following method in Microsoft Word:

 Display the FILE tab on the ribbon, click OPTIONS, then DISPLAY. Select of deselect HIDDEN TEXT.

This guide specification section has been prepared by Formulated Materials LLC for use in the preparation of a project specification section covering HydroPhase hydraulic cement floor underlayment for use over fully cured and existing concrete, wood, and other clean, structurally sound substrates meeting L/360 deflection criteria. HydroPhase may be used in residential, multi-family, commercial, and institutional occupancies. This product can be applied from 1/8 inch to 1-1/2 inches thick in a single application. Do not install HydroPhase over existing asbestos products. HydroPhase does not require surface preparation in most instances, is self-levelling, and does not shrink.

The following should be noted in using this specification:

Hypertext links to manufacturer websites are included after manufacturer names to assist in product selection and further research. Hypertext links are contained in blue, e.g.:

 [www.formulatedmaterials.com](http://www.formulatedmaterials.com)

Optional text requiring a selection by the user is enclosed within brackets and as red text, e.g.: Color: [Red.] [Black.]"

Items requiring user input are enclosed within brackets and as red text, e.g.: "Section [\_\_ \_\_ \_\_ - \_\_\_\_\_\_\_\_]."

Optional paragraphs are separated by an "OR" statement included as red text, e.g.:

\*\*\*\* OR \*\*\*\*

For assistance in the use of products in this section, contact Formulated Materials LLC by calling 844-405-3676 or visit their website at [www.formulatedmaterials.com](http://www.formulatedmaterials.com).

This specification has been prepared based on *SimpleSpecs*™ specification templates. The *SimpleSpecs*™ Master Guide Specification system comprises a full architectural master specification that can be used to specify all project requirements. For additional information on S-Specs products visit the ZeroDocs.com website at www.zerodocs.com.

**SECTION 03 54 16 – HYDRAULIC CEMENT UNDERLAYMENT**

 GENERAL

 SUBMITTALS

 Action Submittals:

 Product Data: Manufacturer’s descriptive data and product attributes.

 QUALITY ASSURANCE

Retain the following to specify minimum installer experience.

 Installer Qualifications: Firm specializing in work of this Section, with minimum [2] [\_\_] years’ experience.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by Formulated Materials LLC. [www.formulatedmaterials.com](http://www.formulatedmaterials.com).

Edit the following to indicate whether substitutions will be allowed for the products specified in this section.

 Substitutions: [Refer to Division 01.] [Not permitted.]

 MATERIALS

 Hydraulic Cement Underlayment:

HydroPhase C150 SL requires the addition of sand at the project site. HydroPhase P150 SL contains sand.

 Product: HydroPhase [C150 SL.] [P150 SL.]

 Description: Self-leveling, polymer modified, cement based floor underlayment.

 Compressive strength: Minimum 5000 PSI at 28 days, tested to ASTM C109/C109M.

 ACCESSORIES

 Primer: Type recommended by underlayment manufacturer.

Retain the following if HydroPhase C150 SL was selected above.

 Sand: Clean, dry, natural or manufactured sand of size and gradation recommended by underlayment manufacturer.

Reinforcing lath is required over wood substrates.

 Reinforcing Lath: Type recommended by underlayment manufacturer.

 MIXES

 Mix materials in accordance with manufacturer’s instructions.

 EXECUTION

 PREPARATION

* + 1. Perform moisture and substrate strength testing in accordance with underlayment manufacturer’s instructions.

 INSTALLATION

 Install underlayment in accordance with manufacturer's instructions.

 Seal voids around perimeter and at penetrations.

 Apply primer to surface to receive underlayment; allow to dry.

Reinforcing lath is required over wood substrates.

 Staple reinforcing lath to substrate.

 Place underlayment to minimum depth required to achieve finish floor elevations indicated.

 Installation Tolerances: Maximum [1/8] [\_\_] inch in 10 feet variation from level.

 END OF SECTION