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SECTION 09 97 39 – MINERAL-BASED COATINGS

 GENERAL

 ADMINISTRATIVE REQUIREMENTS

 Pre-Installation Conference:

 Attendance: [Architect,] [Owner,] [Contractor,] [Construction Manager,] [Design/Builder] installer, and related trades.

 Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

 SUBMITTALS

 Action Submittals:

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

 Samples: [12 x 12] [\_\_ x \_\_] inch ([300 x 300] [\_\_ x \_\_] mm) coating samples illustrating each coating system, color, and finish. Step back successive coats so that all coats remain exposed.

 Closeout Submittals:

 Maintenance Data.

 QUALITY ASSURANCE

 Installer Qualifications: Minimum [2] [\_\_] years’ experience in work of this Section.

 Mockups: [4 x 8] [\_\_ x \_\_] ([1200 x 2400] [\_\_ x \_\_] mm) feet of each coating system and color. Approved mockups [may] [may not] remain as part of the Work.

 PRODUCTS

 MANUFACTURERS

 Contract Documents are based on products by Keim, [www.keim-usa.com](http://www.keim-usa.com)

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

 MATERIALS

 Mineral-Based Coatings and Accessories: As scheduled at end of Section.

 EXECUTION

 PREPARATION

* + 1. Prepare scheduled surfaces to receive mineral-based coatings:
			1. Clean surfaces using specified cleaner.
			2. Remove paints and coatings from surfaces using specified paint stripper.
			3. Ensure that well-bonded acrylic or emulsion paints are sound, clean, and dry. Remove loose and peeling paint and sand areas smooth.
			4. Patch cracks, holes, and voids using specified patching compound.
			5. Apply specified fixative to surfaces.

 Apply materials in accordance with manufacturer’s instructions.

 APPLICATION

 Apply mineral-based coatings to scheduled surfaces as indicated in “Mineral-Based Coatings Schedule” below.

 After completion of mineral-based coatings apply water repellent coating.

 After completion of mineral-based coatings apply graffiti-resistant coating.

 Apply materials in accordance with manufacturer’s instructions.

 MINERAL-BASED COATINGS SCHEDULE

 New Cast-in-Place Concrete:

 Cleaner: HD Cleaner.

 Patching compound:

* + - * 1. Deep patches: Concrete mortar.
				2. Thinset repairs: Concretal Fine Filler.

 Primer: Not required.

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish or Soldalit Sol Silicate All Surface Finish.]

 New Precast Concrete:

 Coating: [One coat] [Two coats] Concretal W High Performance Finish or Soldalit Sol Silicate All Surface Finish.

 New Tilt-Up Concrete:

 Cleaner: HD Cleaner.

 Primer: Contact Plus Sand Primer or Contact Plus Coarse Primer.

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish.]

 Shotcrete:

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish.]

 Existing Cast-in-Place Concrete:

 Cleaner:

* + - * 1. Biological growth stains: Bio Cleaner.
				2. Stains and contaminants: HD Cleaner.

 Patching compound: Concretal Mortar or Concretal Fine Filler.

 Primer: Contact Plus Sand Primer.

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish.]

 Existing Precast Concrete:

 Cleaner:

* + - * 1. Biological growth stains: Bio Cleaner.
				2. Stains and contaminants: HD Cleaner.

 Coating: [One coat] [Two coats] Concretal W High Performance Finish or Soldalit Sol Silicate All Surface Finish.

 New Concrete Unit Masonry:

 Primer: Contact Plus Coarse Primer.

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish or Soldalit Sol Silicate All Surface Finish.]

 Existing Concrete Unit Masonry:

 Cleaner:

* + - * 1. Biological growth stains: Bio Cleaner.
				2. Stains and contaminants: HD Cleaner.

 Primer: Contact Plus Coarse Primer.

 Coating: [One coat] [Two coats] [Concretal Pro Finish.] [Concretal W High Performance Finish or Soldalit Sol Silicate All Surface Finish.]

 New Brick:

 Coating: [One coat] [Two coats] [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 Existing Brick:

 Cleaner:

* + - * 1. Biological growth stains: Bio Cleaner.
				2. Stains and contaminants: HD Cleaner.

 Patching compound: Masonry Spackle.

 Coating: [One coat] [Two coats] [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 New Stone:

 Coating: [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 Existing Stone:

 Cleaner: Bio Cleaner.

 Patching compound: Masonry Spackle.

 Coating: [One coat] [Two coats] [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 New Stucco or Plaster:

 Cleaner: Lime Remover/Etchant.

 Coating: [One coat] [Two coats] [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 Existing Stucco or Plaster:

 Cleaner:

* + - * 1. Biological growth stains: Bio Cleaner.
				2. Stains and contaminants: HD Cleaner.

 Patching compound: Masonry Spackle.

 Primer: Contact Plus Sanded Primer.

 Coating: [One coat] [Two coats] [Mineral Masonry Paint.] [Soldalit Sol Silicate All Surface Finish.]

 Concrete Fiber Board:

 Coating: [One coat] [Two coats] Concretal W High Performance Finish or Soladit Sol Silicate All Surface Finish.

END OF SECTION