

**SECTION 09610
FLOOR TREATMENTS**

PART 1 – GENERAL

1.01 SECTION INCLUDES

- A. Components and mix design for resurfacing over both old and new concrete, asphalt, metal, coatings and adhesives.
- B. Repairs and preparation for floors.

1.02 PRODUCT DESCRIPTION

- A. Primary component is a water-based polymer that is mixed with water, cement and sand and is applied in strict accordance with manufacturer's instructions.
- B. Mixture is utilized to provide a waterproof, wearing surface for new or old substrates and can be used for both interior and exterior applications with exceptional durability.
- C. Mixture can be used to resurface over existing coatings and adhesives to provide a new surface for coatings or floor coverings to bond to.
- D. Mixture shall require no primer or pre-wetting of the substrate to achieve successful bond.
- E. Specified product shall meet or exceed the following criteria:
 - 1. ASTM D 4541 Bond Strength: 466 psi
 - 2. ASTM C 579 Compression Strength (7-day cure): 6,225 psi
 - 3. ASTM C 501 Abrasion Resistance (equivalent to 5,000 psi concrete)
 - 4. ASTM G 43 Weathering (5,208 hours exposure): No damage to sample
 - 5. British Standard 6853 Smoke and Toxic Fume Emission – Accepted
 - 6. British Pendulum Test – Skid Resistance – Dry: 65, Wet: 58
 - 7. Shall have documentation of minimum of 5-years bond performance on oil-base substrates e.g., asphalt.

1.03 QUALITY ASSURANCE

- A. The manufacturer shall supply written proof of at least 5 years successful experience in resurfacing both interior and exterior surfaces.
- B. Manufacturer shall have been current business for a minimum of 10 years.

- C. EPA – Environmental Protection Agency: All components must be V.O.C. compliant to current regulations.
- D. Manufacturer shall provide a 5-year bond warranty when applied in strict accordance with manufacture’s written instructions by a certified applicator.

1.04 SUBMITTALS

- A. Applicator shall furnish for approval upon request, material data sheets, MSDS and all other supporting data required by either the specifier and/or owner.
- B. The specified product shall be RELAY™ as manufactured by:
 - SINAK Corporation
 - 1949 W. Walnut Ave.
 - San Diego, CA 92101
 - Phone: (800) 523-3147 Fax: (619) 295-0227
- C. There is no known equal to RELAY™. Architect and/or owner prior to bid time must approve alternates in writing. Bids received that include alternate materials that have not been approved in such fashion will be rejected as non-responsive to the bid documents.

1.05 ENVIRONMENTAL REQUIREMENTS

- A. Application of the mixture shall meet with all current environmental laws as prescribed by governing agencies.
- B. Temperature and humidity of installation environment shall be at anticipated service conditions.
- C. Provide adequate ventilation during application within an enclosed space.
- D. Disposal of containers and materials and all costs thereof shall be the responsibility of the applicator.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Material shall be a water-based milky white concentrate polymer blend. When mixed with water, cement and sand, mixture will produce a thin-bond wearing surface that requires no primer or pre-wetting of the surface to be resurfaced.

2.02 PREPARATION

- A. Cracks, joints, etc. shall be repaired with appropriate repair materials and will be in accordance with the manufacturer's written instructions.

PART 3 – EXECUTION

3.01 EXAMINATION AND PREPARATION

- A. Verify that surfaces are solid, free of loose particles, cracks, pits, rough projections or foreign matter detrimental to maximum adhesion of the coating.
- B. Foreign materials detrimental to the system e.g., curing compounds, sealers, loose patching materials or surface oil shall be removed by mechanical scarification or shotblasting
- C. System shall not be applied to damp, dirty, frozen, non-absorptive, or glossy surfaces.
- D. Sanding or grinding to provide a suitable surface shall roughen glossy surfaces.
- E. Surfaces shall be cleaned and prepared in accordance with the manufacturer's written installation/application instructions.

3.02 APPLICATION

- A. Application of resurfacer shall be in accordance with the manufacturer's currently published specifications, and only by an applicator approved in writing by the manufacturer.

3.03 PROTECTION

- A. Owner shall be responsible for reasonable care and maintenance of the installed coating upon completion. Contractor shall be responsible for such protection of work area until owner's acceptance.

END OF SECTION