

Summary

Provide labor, materials, equipment and supervision necessary to install a waterproofing membrane prior to the application of a Neogard flooring system.

Purpose

Provide a waterproofing membrane for flooring systems where water, chemicals, hazardous waste materials or other fluid types must be contained.

Materials

Note: Hempel product numbers in parentheses.

- Primer: 7779/7781 (254J9/946JB) epoxy, 70714/70715 (45060) epoxy, or 70714/70715-09 (45062) epoxy
- Liquid Flashing: FC7500/FC7960 (45063) or 7430 (57040) series urethane coating material.
- Waterproofing Membrane: FC7500/FC7960 (45063) or 7430 (57040) series urethane coating material.
- Fillers: P1934 (D261) fumed silica.
- Aggregate: 7992 (66010) silica quartz sand or other aggregate approved by Neogard.
- Sealant: 70991 (47XJB) or other polyurethane sealant approved by Neogard.

Mixing

Comply with manufacturer's instructions for mixing procedures for all single and two-component materials.

Examination

Verify that the work done under other sections meets the following requirements:

- That the concrete deck surface is free of ridges and sharp projections, sound and dry.
- That the concrete was cured for a minimum of 28 days. (Minimum of 3,500 psi compressive strength). The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by Neogard.
- That damaged areas of the concrete substrate be restored to match adjacent areas. Use 70714/70715 epoxy and oven-dry silica aggregate approved by Neogard for filling and leveling at a ratio of one part epoxy mixed with four parts aggregate by volume.
- That due to hydrostatic, capillary and moisture vapor pressure, substrates in contact with ground must have a properly installed, effective vapor barrier. Moisture vapor emission of concrete not to exceed 3 lbs/1,000 sq. ft./24 hrs, when tested by the quantitative calcium chloride test method (ASTM F1869). Relative Humidity is not to exceed 75% when tested by ASTM F2170 (In-situ Probe Test).

Protection

Provide a suitable work station to mix the coating materials. Protect adjacent surfaces from damage resulting from work of this trade. If necessary, mask and/or cover adjacent surfaces, fixtures, equipment, etc. by suitable means.

Surface Preparation

- **Cleaning:** Surfaces contaminated with oil or grease shall be vigorously scrubbed with a stiff bristle broom and a strong non-sudsing detergent such as Neogard 8500 BioDegradable Cleaner. Thoroughly wash, clean, and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.
- **Shot-Blasting:** Required surface preparation method for remedial construction is also the preferred method for new construction. Mechanically prepare surface by shot-blasting to industry standard surface texture (ICRI's CSP3-CSP4) without causing additional surface defects in substrate. Shot-blasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to ensure proper bonding of the deck coating.
- **Cracks and Cold Joints:** Visible hairline cracks (less than 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with thoroughly mixed base coat material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (greater than 1/16" in width) shall be routed and sealed with 70991 sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with thoroughly mixed base coat material a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.
- **Control Joints:** Seal control joints equal to or less than 1" in width with 70991 urethane sealant. Depending on the width to depth ratio of the joint, backing material and a bond breaker may be required. Install sealants in accordance with ASTM C1193 and

manufacturer's instructions. Detail sealed joints with thoroughly mixed base coat material a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.

- Flashing Tape: Install 86218 flashing tape and 86220 reinforcing fabric where indicated on the drawings and/or where required by the manufacturer prior to the application of base coat.
- Surface Condition: Surface shall be clean and dry prior to coating.

Application

1. Primer: Mix epoxy primer in accordance with procedures outlined by Neogard. Apply at a rate of 200–300 square feet per gallon to prepared substrate. Primer should be tack free before applying waterproofing membrane.
2. Base Coat: Apply FC7500/FC7960 urethane coating at a rate of 1.25 gal/100 sf (80 sf/gal) or 7430 series urethane coating at a rate of 1.66 gal/100 sf (60 sf/gal) to deck surfaces in strict accordance with procedures outlined by Neogard. Extend base coat over cracks and control joints which have received treatment.
3. Aggregate Coat (Not applicable if applying a smooth, non-aggregated flooring system): When base coat is dry, recoat surface with 0.5 gallon per 100 square feet (200 sf/gal) of FC7500/FC7960 or 7430 series urethane coating and immediately broadcast aggregate at a rate of approximately 12–15 pounds per 100 square feet and allow to cure.
4. Applicator is responsible for applying sufficient coating to the substrate.

Flooring System

After completion of waterproofing membrane, install required flooring system in strict accordance with application procedures outlined by Neogard.

Note: Flooring System installed over a waterproofing membrane must be minimum 32 dry mils, exclusive of aggregates.

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