



Special Instructions

SUMMARY

Provide labor, materials, equipment and supervision necessary to install a waterproofing membrane prior to the application of a NEOGARD broadcast (BC) or trowel (T) applied flooring system.

PURPOSE

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

MATERIALS

1. Primer - 7779/7781, 70714/70715-09 or 70714/70715 epoxy primer.
2. Liquid Flashing - 7430 series or FC7500/FC7960 urethane coating material.
3. Waterproofing Membrane - 7430 series or FC7500/FC7960 urethane coating material.
4. Fillers - P1934 fumed silica (Cab-O-Sil).
5. Aggregate - 7992 silica (quartz) sand or other aggregate approved by NEOGARD®.
6. Sealant - Sealant: 70991 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:

1. That the concrete substrate surface is free of ridges and sharp projections, sound and dry.
2. 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 a sodium silicate base only; others require written approval from NEOGARD®.
3. That damaged areas of the concrete substrate be restored to match adjacent areas. Use 70714/70715-09 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.

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

Surfaces contaminated with oil or grease shall be vigorously scrubbed with a power broom and a strong, non-sudsing detergent. Thoroughly wash, clean and dry. Areas where oil or other contaminants penetrate deep into the concrete may require removal by mechanical methods.

Steel shotblast the surface to remove surface contaminants. Proper care and procedure should be taken to leave the concrete surface as unopened as possible. An improper steel shotblast can cause "pinholes" in concrete surfaces, which can result in blister problems during the application of the decorative flooring system. Note: Shotblasting does not remove deep penetrating oils, grease, tar or asphalt stains. Proper cleaning procedures should be followed to insure proper bonding of the epoxy flooring.

Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete and cold joints shall be cleaned, primed as required and treated with liquid flashing a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (over 1/16" in width) shall be routed and sealed with sealant. Sealant shall be applied to inside area of crack only, not applied to deck surface. Detail sealed cracks with liquid flashing a distance of 2" on each side of crack to yield a total thickness of 30 dry mils.

Control Joints: Seal secondary control joints with sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with liquid flashing a distance of 2" on each side of joint to yield a total thickness of 30 dry mils.

Concrete must be free of hydrostatic, capillary or moisture vapor pressure. Substrates in contact with ground must have a properly installed effective vapor barrier to help prevent potential problems resulting from hydrostatic, capillary or moisture vapor pressure. Moisture content of concrete not to exceed four pounds per 1,000 square feet per 24 hours when tested by the referee or quantitative calcium chloride test method.

Do not apply materials unless surface to receive coating is clean and dry.

APPLICATION

Primer: Mix epoxy primer in accordance with procedures outlined by NEOGARD®. Apply at a rate of 200 to 300 square feet per gallon to prepared substrate. Primer should be tack free before applying waterproofing membrane.

Base Coat: Apply 7430 series urethane coating at a rate of 1-2/3 gallons per 100 square feet (60 sf/gal) or FC7500/FC7960 urethane coating at a rate of 1.25 gallons per 100 square feet (80 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.

Aggregate Coat: When base coat is dry, recoat surface with 1/2 gallon per 100 square feet (200 sf/gal) of 7430 series or FC7500/FC7960 urethane coating and immediately broadcast aggregate at a rate of approximately 12 to 15 pounds per 100 square feet and allow to cure.

FLOORING SYSTEM

After completion of waterproofing membrane, install required broadcast or trowel flooring system in strict accordance with application procedures outlined by NEOGARD.

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