



Guide Specification

PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a decorative flooring system as outlined in this specification.
- B. The manufacturers application instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
 - 1. Section 03 30 00 - Cast-in-Place Concrete
 - 2. Section 07 92 00 - Joint Sealants
 - 3. Section 07 95 00 - Expansion Control

1.2 SYSTEM DESCRIPTION

- A. Neoflake Broadcast shall be a complete system of compatible materials supplied by NEOGARD® to create a decorative, seamless flooring system.
- B. Neoflake Broadcast shall be designated for application on the specific type of substrate indicated on the drawings.

1.3 SUBMITTALS

- A. Product Data: Submit NEOGARD® product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified decorative flooring system. Samples shall be construed as examples of finish only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the decorative flooring system.
- E. Warranty: Submit copy of manufacturers standard warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Neoflake Broadcast, as supplied by NEOGARD®, is approved for use on this project.

- B. Applicator Qualifications: Applicators shall be approved to install specified system.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F (23.8°C). Handle products to avoid damage to container. Do not store for long periods in direct sunlight.

1.6 PROJECT CONDITIONS

- A. Environmental Conditions:
 - 1. Do not proceed with application of materials when substrate temperature is less than 50°F (10°C). It is recommended to maintain a minimum concrete temperature of 50°F (10°C) for a minimum of 48 hours before, during and after installation, or until cured.
 - 2. 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.
 - 3. Do not apply materials unless surface to receive coating is clean and dry.

1.7 WARRANTY

- A. Upon request, NEOGARD® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. NEOGARD® Division of JONES-BLAIR® Company, P.O. Box 35286, Dallas, TX 75235, Toll Free (800) 321-6588, Fax (214) 357-7532, www.neogard.com.

2.2 MATERIALS

- A. Neoflake Broadcast:
 - 1. Primer: 70714/70715-09 clear epoxy.
 - 2. Epoxy Resin: 70714-XX/70715-09 pigmented, 70734/70735 clear or 70734-01/70735 white.

3. Crack Filler: 70718/70719 flexible epoxy.
4. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.
5. Fillers: P1934 fumed silica and 86364 blended aggregates.
6. Colored Chips: Integrally colored, random sized chips that are made from resins and other materials. Contact NEOGARD® Customer Service for source of supply.
7. Texture: 86500 Neogrip spheres.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical performance requirements of cured 70714/70715-09 epoxy used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM		
PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Compressive Strength	ASTM D695	15,001 psi
Tensile Strength	ASTM D638	2,005 psi
Elongation	ASTM D638	40%
Flexural Strength	ASTM D790	1,851 psi
Flexural Modulus	ASTM D790	61,917 psi
Shore D Hardness	ASTM D2240	77
Adhesion	ASTM D4541	400 psi
Impact Resistance	Mil-D-3134, Sec. 4.7.3	Passes 16 ft/lbs
Taber Abrasion (cs17)	ASTM D4060	61 mg/1,000 rev
Water Resistance	ASTM D570	0.17%
MVT @ 10 mils	ASTM E96	0.18 Perm
Fungus & Bacteria Resistance	Mil-F-52505	No Support of Growth Under TT-P-34

2.4 MIXES

- A. Comply with manufacturer's instructions for mixing procedures.
- B. Carefully measure and mix the components together.

PART 3 EXECUTION

3.1 EXAMINATION

- A. 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.

3.2 PREPARATION

- A. Protection:
 1. 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.
 2. Provide a suitable work station to mix the coating materials.
- B. Surface Preparation:
 1. Cleaning: 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.
 2. 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.
 3. Non-moving Cracks: After shotblasting, fill all non-moving cracks with 70714/70715-09 epoxy mixed with P1934 fumed silica to form a paste. The mix ratio is one part 70714/70715-09 epoxy to 2 (up to 3) parts P1934 fumed silica by volume.
 4. Moving Cracks or Control Joints: Route all large cracks, remove dust and debris, and fill flush with 70718/70719 flexible epoxy.
 5. Moving Control Joints: Seal secondary control joints with 70991 sealant. Re-incorporate expansion joints and control joints into flooring system if conditions require. Consult NEOGARD® for details on moving cracks, expansion joint details and moving control joints.
 6. Surface Condition: 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.
 7. Do not apply materials unless surface to receive coating is clean and dry.

3.3 APPLICATION

- A. Primer: Mix 70714/70715-09 clear epoxy at a ratio of 2:1 by volume for three minutes. Apply at a rate of 200 square feet per gallon (8 mils WFT) to prepared substrate. Primer should be tack free before applying base coat.

- B. Base Coat: Mix 70714-XX/70715-09 pigmented epoxy at a ratio of 2:1 by volume for three minutes. Apply mixed 70714-XX/70715-09 pigmented epoxy at a minimum rate of 100 square feet per gallon (16 mils WFT). For a white base, mix 70734-01/70735 at a ratio of 2:1 by volume for three minutes. Backroll applied material with a high quality, short-napped phenolic core roller cover to ensure a uniform texture. De-air and finish leveling with a spiked roller.
- C. Color Chips: Broadcast blended color chips into wet base coat until desired pattern is achieved. Color chips must be applied by walking onto the wet 70714-XX/70715-09 pigmented or 70734-01/70735 white base coat wearing spiked shoes. Depending on the desired pattern, broadcast between 4 to 6 ounces by weight of blended color chips per 100 square feet. Allow 1 to 2 feet for a wet working edge without any color chips to allow for a smooth transition to the next pass of neat epoxy. Allow system to cure 12 to 16 hours at 70°F (21.1°C). Lightly sand with a circular floor sander using 50-grit paper to remove any rough spots, followed by sweeping and vacuuming.
- D. First Seal Coat: Mix 70734/70735 clear at a ratio of 2:1 for three minutes. Apply first seal coat of 70734/70735 clear at a rate of 200 square feet per gallon (8 mils WFT) and allow to cure 10 to 14 hours @ 70°F (21.1°C) or until tack free.
- E. Second Seal Coat: Mix 70734/70735 clear at a ratio of 2:1 for three minutes. Apply second seal coat of 70734/70735 clear at a rate of 200 square feet per gallon (8 mils WFT) and allow to cure 24 hours @ 70°F (21.1°C) before allowing foot traffic.
- F. Optional Textured Finish: To achieve a limited slip-resistant surface, a third topcoat of 70734/70735 clear must be applied. Add 4 ounces by volume of Neogrip spheres to one gallon of 70734 and mix with 1/2 gallon of 70735 for three minutes. The coverage rate for the optional textured finish must be applied at 350 to 400 square feet per gallon to yield an average nominal thickness of 4 mils WFT. Note: Installing the textured finish thicker than 4 mils WFT will cause the Neogrip spheres to sink into the 70734/70735 coating, thus eliminating the desired slip-resistant texture.
- G. Optional Topcoat: To maximize chemical resistance and ease of maintenance, please consult NEOGARD® flooring technical department for finish coat.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.
- B. Reference Seamless Flooring Systems Manual for typical cleaning methods.

3.5 PROTECTION

- A. After completion of application, do not allow heavy traffic on coated surfaces for a period of at least 24 hours at 75°F (23.8°C), or until completely cured 7 days @ 70°F (21.1°C).

The information, data and suggestions contained herein are believed to be reliable, based upon our knowledge and experience; however, it is expressly declared that Seller does not guarantee the result to be obtained in Buyer's process. **SELLER HEREBY EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY FOR FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED** as to any and all products and/or suggestions described herein, whether such products are used alone or in combination with other materials. Buyer must make its own determination of the suitability of any product for its use, and the completeness of any information contained herein. Nothing contained herein shall be construed to constitute inducement or recommendation to practice any invention covered by any patent without authority from the owner of the patent. Applicator is an independent contractor of, and should under no circumstances be viewed as an employee or agent of, the NEOGARD® Division of JONES-BLAIR®. NeoflakeBroadcast CSI.indd

NEOGARD®
Div. of JONES-BLAIR®

2728 Empire Central - P.O. Box 35286 - Dallas, Texas 75235 - Toll Free (800) 321-6588 - Fax (214) 357-7532 - www.neogard.com