

Neoflake

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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 90 00: Joint Protection
 - 3. Section 07 95 00: Expansion Control

1.2 SYSTEM DESCRIPTION

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

1.3 SUBMITTALS

- A. Technical Data: Submit manufacturer's product data, Safety Data Sheets (SDS) and installation instructions.
- B. Samples: Submit samples of specified floor coating system. Samples shall be construed as examples of finished color and texture of the system only.
- C. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the Neoflake decorative flooring system.
- D. Warranty: Submit copy of manufacturer's standard sample warranty, identifying the terms and conditions stated in section 1.7 Warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Neoflake, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: Applicator shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Specified materials shall meet existing Federal, State and local VOC regulations.
- D. Field Sample:
 - 1. Install a field sample of at least 100 square feet at the project site or pre-selected area as agreed to by owner's representative, applicator and manufacturer.
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Field sample will be standard for judging color and texture on remainder of project.
 - 4. Maintain field sample during construction for workmanship comparison.
 - 5. Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

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°C. Handle products to prevent damage to container. All materials shall be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

1.6 PROJECT CONDITIONS

- A. Read and follow the SDS and container labels for detailed health and safety information.
- B. Apply materials only when substrate temperature is 50°F/10°C or greater, and to a clean, dry surface. Do not apply if precipitation is imminent, or to a damp, unclean or frosty surface. Maintain a minimum substrate temperature of 50°F/10°C for a minimum of 48 hours before, during and after installation, or until cured.
- C. Apply materials only if ambient temperature between 50°F/10°C and 85°F/29°C. Ambient temperature must be a minimum of 5°F/3°C above dew point. Cure times, flow/leveling, cured physical properties, and overall appearance will be adversely affected if products are applied outside of these temperature ranges.
- D. 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 hours, when tested by the quantitative calcium chloride test method (ASTM F1869). Relative Humidity is not to exceed 75% when tested by In-situ Probe Test (ASTM F2170).
- E. Coordinate flooring work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the traffic flooring system to cure adequately.
- F. Protect adjacent surfaces from damage resulting from installation of the system. If necessary, mask and/or cover adjacent surfaces, fixtures, equipment, and others by suitable means.
- G. Provide adequate ventilation.
- H. Provide a suitable work station to mix coating materials.
- I. Maintain work area in a neat and orderly condition, removing empty containers, rags and trash daily from the site.

1.7 WARRANTY

- A. Upon request, Neogard shall offer a manufacturer's standard warranty for institutional, commercial, industrial, and high-rise/multi-family residential projects only, upon substantial completion of the application and receipt of a properly executed warranty request form.

PART 2 MATERIALS

2.1 MANUFACTURER

- A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75235, 214-353-1600, www.neogard.com.

2.2 MATERIALS

- A. Neoflake (Hempel product numbers in parentheses):
 - 1. Crack and Joint Filler: 70718/70719 (25000) flexible epoxy.
 - 2. Sealant: 70991 (47XJB) or other polyurethane sealant approved by Neogard.
 - 3. Color Chips: Integrally colored, random sized chips. Contact Neogard for source of supply.
 - 4. Primer: 70714/70715 (45060) clear epoxy.
 - 5. Base Coat: 70714/70715 (45060) pigmented epoxy.
 - 6. Seal Coats (choose one):
 - a. 70734/70735 (45040) clear epoxy.
 - b. 70817/70818 (57070) clear CRU.
 - c. 70902/70910 (47ZJB) clear.
 - 7. Optional Texture: 86500 (66XJB) Neogrip spheres.
 - 8. Optional Texture Coat (choose one):

- a. 70734/70735 (45040) clear epoxy.
- b. 70817/70818 (57070) clear CRU.

2.3 MATERIAL PERFORMANCE CRITERIA

A. Typical physical properties of cured 70714/70715 epoxy used on this project are:

1. Tensile Strength, ASTM D638, 3,700 psi
2. Elongation, ASTM D638, 25%
3. Compressive Strength, ASTM D695, 25,300 psi
4. Flexural Strength, ASTM D790, 3,180 psi
5. Flexural Modulus, ASTM D790, 57,700 psi
6. Water Resistance, ASTM D570, 0.21%
7. MVT (10 mils), ASTM E96, 0.16
8. Taber Abrasion, ASTM D4060, 25 mg (1,000 CS-17)
9. Shore D, ASTM D2240, 78
10. Adhesion, ASTM D4541, 350 psi
11. Flammability, ASTM D635, Pass

B. Typical physical properties of cured 70734/70735 epoxy used on this project are:

1. Compressive Strength, ASTM D695, 11,000 psi
2. Tensile Strength, ASTM D638, 8,000 psi
3. Elongation at Break, ASTM D638, 14%
4. Flexural Strength, ASTM D790, 10,000 psi
5. Flexural Modulus, ASTM D790, 400,000 psi
6. Modulus of Elasticity, ASTM D790, 170,000 psi
7. Shore D, ASTM D2240, 82
8. Adhesion, ASTM D4541, 400 psi
9. Water Resistance, ASTM D570, < 2%
10. MVT (20 mils), ASTM E96, 0.10 Perm
11. Flammability, ASTM D635, Pass
12. Taber Abrasion, ASTM D4060, 89 mg (1,000 CS-17)

C. Typical physical properties of cured 70817/70818 clear CRU used on this project are:

1. Tensile Strength, ASTM D2370, 7,500 psi
2. Elongation, ASTM D2370, 12%
3. Shore D, ASTM D2240, 70
4. Water Resistance, ASTM D471, < 1% (7 days)
5. Taber Abrasion, ASTM D4060, 23 mg (1,000 CS-17)
6. Anti-Microbial, JIS Z 2801-2010, Pass
7. Typical physical properties of cured 70902/70910 urethane used on this project are:
8. Taber Abrasion (1,000 cycles CS-17), ASTM D4060, 20 mg loss
9. Pencil Hardness, ASTM D3363, 4H Gouge

D. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

2.4 ACCESSORIES

A. Miscellaneous materials such as cleaning agents, adhesives, closed cell backer rod, deck drains, and others, shall be compatible with the specified Neoflake system.

2.5 MIXING

A. Comply with manufacturer's instructions for mixing procedures as noted on container labels.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that the work done under other sections meets the following requirements:
 - 1. That the concrete deck 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 the sodium silicate base only; others require written approval by 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.
 - 4. 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 hours, when tested by the quantitative calcium chloride test method (ASTM F1869). Relative Humidity is not to exceed 75% when tested by In-situ Probe Test (ASTM F2170).

3.2 PREPARATION

- A. 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. Do not apply materials unless surface is clean and dry.
- B. 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 CSP3-4) 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. Note: If shot-blasting is not practical, contact Neogard Technical Service.
- C. Cracks: After shotblasting, fill all non-moving cracks with 70714/70715 epoxy, mixed with P1934 fumed silica to form a paste. The mix ratio is one part 70714/70715 epoxy to 3 parts P1934 fumed silica by volume.
- D. Control and Cold Joints: Fill control and cold joints flush with 70718/70719 flexible epoxy at 3/4" depth. Install backer rod if necessary to limit depth to 3/4".
- E. Expansion and Isolation Joints: Expansion and isolation joints \leq 1" in width, shall be sealed with 70991 sealant. Sealant shall be applied to inside of joint only, not applied to floor surface.

3.3 APPLICATION

- A. Factors That Affect Dry Film Thickness: Volume solids, thinning, surface profile, application technique and equipment, overspray, squeegee, brush and roller wet out, container residue, spills and other waste are among the many factors that affect the amount of wet coating required to yield proper dry film thickness. To ensure that specified dry film thickness is achieved, use a wet mil gauge to verify actual thickness of wet coating applied, adjusting as needed for those factors which directly affect the dry film build.
- B. Each neat coat must be recoated within 24 hours of application at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
 - 1. Recoat window excludes coats with exposed color chips (3.3C2 and 3.3D3).
- C. Random Broadcast:
 - 1. Base Coat: Mix and apply 70714/70715 clear or pigmented epoxy at a rate of 100 sf/gal (16 wet mils) to yield 16 dry mils. Backroll applied material to ensure a uniform coverage. De-air and finish leveling with a spike roller.
 - 2. Color Chips: Wearing spiked shoes, broadcast blended color chips into wet base coat until desired pattern is achieved. Allow a 1–2 ft wet working edge without color chips to allow for a smooth transition to continuation of application of next pass of neat epoxy. Allow to cure until tack free (8–12 hours at 75°F/23°C. Lightly sand with circular floor sander using 60-grit paper to remove rough spots, followed by sweeping and vacuuming.
 - 3. First Seal Coat: Mix and apply 70734/70735 and apply at a rate of 200 sf/gal (8 wet mils). Allow to cure until tack free (12–16 hours at 75°F/23°C).

4. Second Seal Coat: Mix and apply 70734/70735 or 70817/70818 CRU or 70902/70910 Floor Gard Satin at a rate of 200 sf/gal (8 wet mils). Allow system to cure for 24 hours at 75°F/23°C before allowing foot traffic, 48 hours before allowing heavy load.
 5. Optional Texture Coat: To achieve a limited slip-resistant surface, apply second seal coat using Neogrip spheres. Add 6 ounces by volume of Neogrip spheres to 1 gallon of 70734/70735 or 1 gallon of 70817/70818 and mix for three minutes. Apply at 400 sf/gal (4 wet mils).
 - a. Installing the Optional Texture Coat thicker than 4 wet mils will cause the Neogrip spheres to sink into the coating, thus eliminating the desired slip-resistant texture.
 6. Allow system to cure for 24 hours at 75°F/23°C before allowing foot traffic, 48 hours before allowing heavy load.
- D. Broadcast to Rejection
1. Primer: Mix and apply 70714/70715 clear epoxy at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils. Allow to cure until tack free (8–9 hours at 75°F/23°C).
 2. Base Coat: Mix and apply 70714/70715 pigmented epoxy at a rate of 100 sf/gal (16 wet mils) to yield 16 dry mils. Backroll applied material to ensure a uniform coverage. De-air and finish leveling with a spiked roller.
 3. Color Chips: Wearing spike shoes, broadcast blended flakes into wet base coat until full rejection is achieved. Allow to cure until tack free (8-12 hours at 75°F/23°C). Lightly sand with circular floor sander using 60 grit paper to remove rough spots, followed by sweeping and vacuuming.
 4. First Seal Coat: Mix and apply 70734/70735 at a rate of 200 sf/gal (8 wet mils). Allow to cure until tack free (12-16 hours at 75°F/23°C).
 5. Second Seal Coat: Mix and apply 70734/70735 or 70817/70818 or 70902/70910 at a rate of 200 sf/gal (8 wet mils) Allow system to cure for 24 hours at 75°F/23°C before allowing foot traffic, 48 hours before heavy load.
 6. Optional Texture Coat: To achieve a limited slip-resistance surface, apply second seal coat using Neogrip spheres. Add 6 ounces by volume of Neogrip spheres to 1 gallon of 70734/70735 or 70817/70818 and mix for three minutes. Apply at 400 sf/gal (4 wet mils).
 - a. Installing the Optional Texture Coat thicker than 4 wet mils will cause the Neogrip spheres to sink into the coating, thus eliminating the desired slip-resistant texture.
 7. Allow system to cure 24 hours at 75°F/23°C before allowing foot traffic, 48 hours before allowing heavy load.
- E. Applicator is responsible for applying sufficient coating to the substrate.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.
- B. Refer to the Preventive Maintenance Manual for Neogard Floor Coating Systems for typical cleaning methods.

3.5 PROTECTION

- A. After completion of application, allow system to cure for 24 hours at 75°F/23°C before allowing foot traffic, 48 hours before allowing heavy load.

END OF SECTION

Guide Specification

Neoflake

Section 09 67 23 Resinous Flooring

Issued by: Hempel (USA) – Neogard Neoflake

This Guide Specification (“**Guide Spec**”) relates to the supplied products/system (“**System**”) and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the Guide Spec current as of the time of delivery. In addition to the Guide Spec, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at www.neogard.com (the “**Additional Documents**”):

No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this Guide Spec and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheets current as of the time of delivery of the System and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the System, and Neogard disclaims all responsibility for any use, handling and storage of any components of the System that are not in accordance with the requirements set forth in the relevant PDS(s), this Guide Spec and the Additional Documents. The terms and provisions hereof apply to this Guide Spec, the Additional Documents and any other documents supplied by Neogard in respect of the System. The System is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE SYSTEM.

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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 90 00: Joint Protection
 - 3. Section 07 95 00: Expansion Control

1.2 SYSTEM DESCRIPTION

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

1.3 SUBMITTALS

- A. Technical Data: Submit manufacturer's product data, Safety Data Sheets (SDS) and installation instructions.
- B. Samples: Submit samples of specified floor coating system. Samples shall be construed as examples of finished color and texture of the system only.
- C. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the Neoflake decorative flooring system.
- D. Warranty: Submit copy of manufacturer's standard sample warranty, identifying the terms and conditions stated in section 1.7 Warranty.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Neoflake RTS, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: Applicator shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Specified materials shall meet existing Federal, State and local VOC regulations.
- D. Field Sample:
 - 1. Install a field sample of at least 100 square feet at the project site or pre-selected area as agreed to by owner's representative, applicator and manufacturer.
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Field sample will be standard for judging color and texture on remainder of project.
 - 4. Maintain field sample during construction for workmanship comparison.
 - 5. Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

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°C. Handle products to prevent damage to container. All materials shall be stored in compliance with local fire and safety requirements. Do not store at high temperatures or in direct sunlight.

1.6 PROJECT CONDITIONS

- A. Read and follow the SDS and container labels for detailed health and safety information.
- B. Apply materials only when substrate temperature is 50°F/10°C or greater, and to a clean, dry surface. Do not apply if precipitation is imminent, or to a damp, unclean or frosty surface. Maintain a minimum substrate temperature of 50°F/10°C for a minimum of 48 hours before, during and after installation, or until cured.
- C. Apply materials only if ambient temperature between 50°F/10°C and 85°F/29°C. Ambient temperature must be a minimum of 5°F/3°C above dew point. Cure times, flow/leveling, cured physical properties, and overall appearance will be adversely affected if products are applied outside of these temperature ranges.
- D. 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 hours, when tested by the quantitative calcium chloride test method (ASTM F1869). Relative Humidity is not to exceed 75% when tested by In-situ Probe Test (ASTM F2170).
- E. Coordinate flooring work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the traffic flooring system to cure adequately.
- F. Protect adjacent surfaces from damage resulting from installation of the system. If necessary, mask and/or cover adjacent surfaces, fixtures, equipment, and others by suitable means.
- G. Provide adequate ventilation.
- H. Provide a suitable work station to mix coating materials.
- I. Maintain work area in a neat and orderly condition, removing empty containers, rags and trash daily from the site.

1.7 WARRANTY

- A. Upon request, Neogard shall offer a manufacturer's standard warranty for institutional, commercial, industrial, and high-rise/multi-family residential projects only, upon substantial completion of the application and receipt of a properly executed warranty request form.

PART 2 MATERIALS

2.1 MANUFACTURER

- A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75235, 214-353-1600, www.neogard.com.

2.2 MATERIALS

- A. Neoflake RTS (Hempel product numbers in parentheses):
 - 1. Crack and Joint Filler: 70718/70719 (25000) flexible epoxy.
 - 2. Sealant: 70991 (47XJB) or other polyurethane sealant approved by Neogard.
 - 3. Color Chips: Integrally colored, random sized chips. Contact Neogard for source of supply.
 - 4. Primer: 70714/70715 (45060) clear epoxy
 - 5. Series #1 Base Coat: 70714/70715 (45060) pigmented epoxy.
 - 6. Series #2 Base Coat: 70869/70819 (57031) clear Polyaspartic.
 - 7. Seal Coats: 70869/70819 (57031) clear Polyaspartic.
 - 8. Optional Texture Coat: 70869/70819 (57031) clear Polyaspartic.
 - 9. Optional Texture: 86500 (66XJB) Neogrip Spheres.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical physical properties of cured 70714/70715 epoxy used on this project are:
1. Tensile Strength, ASTM D638, 3,700 psi
 2. Elongation, ASTM D638, 25%
 3. Compressive Strength, ASTM D695, 25,300 psi
 4. Flexural Strength, ASTM D790, 3,180 psi
 5. Flexural Modulus, ASTM D790, 57,700 psi
 6. Water Resistance, ASTM D570, 0.21%
 7. MVT (10 mils), ASTM E96, 0.16
 8. Taber Abrasion, ASTM D4060, 25 mg (1,000 CS-17)
 9. Shore D, ASTM D2240, 78
 10. Adhesion, ASTM D4541, 350 psi
 11. Flammability, ASTM D635, Pass
- B. Typical physical properties of cured 70869/70819 clear polyaspartic used on this project are:
1. Tensile Strength, ASTM D2370, 3,362 psi
 2. Elongation, ASTM D412, 63%
 3. Taber Abrasion, ASTM D4060, 55 mg (1,000 CS-17)
 4. Shore D, ASTM D2240, 70
 5. Anti-Microbial, JIS Z 2801-2010, Pass
- C. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, adhesives, closed cell backer rod, deck drains, and others, shall be compatible with the specified Neoflake RTS system.

2.5 MIXING

- A. Comply with manufacturer's instructions for mixing procedures as noted on container labels.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that the work done under other sections meets the following requirements:
1. That the concrete deck 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 the sodium silicate base only; others require written approval by Neogard.
 3. 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.
 4. 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 hours, when tested by the quantitative calcium chloride test method (ASTM F1869). Relative Humidity is not to exceed 75% when tested by in-situ Probe Test (ASTM F2170).

3.2 PREPARATION

- A. 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. Do not apply materials unless surface is clean and dry.
- B. 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 CSP3-4) 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. Note: If shot-blasting is not practical, contact Neogard Technical Service.

- C. Cracks: After shotblasting, fill all non-moving cracks with 70714/70715 epoxy, mixed with P1934 fumed silica to form a paste. The mix ratio is one part 70714/70715 epoxy to 3 parts P1934 by volume.
- D. Control and Cold Joints: Fill control and cold joints flush with 70718/70719 flexible epoxy at 3/4" depth. Install backer rod if necessary to limit depth to 3/4".
- E. Expansion and Isolation Joints: Expansion and isolation joints ≤ 1 " in width, shall be sealed with 70991 sealant. Sealant shall be applied to inside of joint only, not applied to floor surface.

3.3 APPLICATION

- A. Factors That Affect Dry Film Thickness: Volume solids, thinning, surface profile, application technique and equipment, overspray, squeegee, brush and roller wet out, container residue, spills and other waste are among the many factors that affect the amount of wet coating required to yield proper dry film thickness. To ensure that specified dry film thickness is achieved, use a wet mil gauge to verify actual thickness of wet coating applied, adjusting as needed for those factors which directly affect the dry film build.
- B. Do not split 70869/70819 clear Polyaspartic kits. Do not thin 70869/70819 clear Polyaspartic.
- C. Relative humidity when applying 70869/70819 clear Polyaspartic shall be below 80%.
- D. Each neat coat must be recoated within 24 hours of application at 70°F/21°C for subsequent coat to properly bond. If the 24-hour recoat window is missed, sand to dull finish before applying subsequent coat(s).
 - 1. Recoat window excludes coats with exposed color chips (3.3E3 and 3.3F2).
- E. Series #1 Random Broadcast (a field mock up is strongly recommended; refer to 1.4.D Field Sample):
 - 1. Primer: Mix and apply 70714/70715 clear epoxy to prepared substrate at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils. Primer should be tack free before application of Base Coat material.
 - 2. Base Coat: Mix and apply 70714/70715 pigmented epoxy at a rate of 100 sf/gal (16 wet mils) to yield 16 dry mils. If applied with notched squeegee, backroll applied material with a high quality, short-napped 1/4" or 3/16" phenolic core roller cover to ensure uniform coverage. De-air with a spiked roller.
 - 3. Color Chips: Wearing spiked shoes, broadcast blended color chips into wet base coat until desired pattern is achieved. Allow a 1–2 ft wet working edge without color chips to allow for a smooth transition to continuation of application of the epoxy. Allow to cure 6–8 hours at 75°F/23°C. Lightly sand with circular floor sander using 50-grit paper to remove rough spots, followed by sweeping and vacuuming.
 - 4. First Seal Coat: Pre-mix 70869 for 3 minutes. Add entire contents of 70819 container to 70869 container and immediately mix for 3 minutes. Apply at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils and allow to cure until tack free (6–8 hours at 75°F/23°C).
 - 5. Second Seal Coat: Pre-mix 70869 for 3 minutes. Add entire contents of 70819 container to 70869 container and immediately mix for 3 minutes. Apply at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils.
 - 6. Optional Texture Coat: To achieve a limited slip-resistant surface, apply a third topcoat of 70869/70819 clear Polyaspartic. Add 14 ounces by volume of Neogrip spheres to 1 mixed kit. Apply at 350–400 sf/gal (4 wet mils) to yield 4 dry mils. Note: Installing the Optional Texture Coat thicker than 4 wet mils will cause the Neogrip spheres to sink into the 70869/70819 coating, thus eliminating the desired slip-resistant texture.
- F. Series #2 Full Rejection Broadcast (a field mock up is strongly recommended; refer to 1.4.D Field Sample):
 - 1. Base Coat: Pre-mix 70869 for 3 minutes. Add entire contents of 70819 container to 70869 container and immediately mix for 3 minutes. Apply at a minimum rate of 100 sf/gal (16 wet mils) to yield 16 dry mils. If applied with notched squeegee, backroll applied material with a high quality, short-napped 1/4" or 3/16" phenolic core roller cover to ensure uniform coverage. De-air with a spiked roller.
 - 2. Color Chips: Wearing spiked shoes, broadcast blended color chips into wet base coat until desired pattern is achieved (approximately 15–20 lbs/100 sf) or total refusal. Allow a 1–2 ft wet working edge without color chips to allow for a smooth transition to continuation of application of the Polyaspartic.

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Allow to cure 6–8 hours at 75°F/23°C. Lightly sand with circular floor sander using 50-grit paper to remove rough spots, followed by sweeping and vacuuming.

3. First Seal Coat: Pre-mix 70869 for 3 minutes. Add entire contents of 70819 container to 70869 container and immediately mix for 3 minutes. Apply at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils and allow to cure until tack free (6–8 hours at 75°F/23°C).
4. Second Seal Coat: Pre-mix 70869 for 3 minutes. Add entire contents of 70819 container to 70869 container and immediately mix for 3 minutes. Apply at a rate of 200 sf/gal (8 wet mils) to yield 8 dry mils.
5. Optional Texture Coat: To achieve a limited slip-resistant surface, apply a third topcoat of 70869/70819 clear Polyaspartic. Add 14 ounces by volume of Neogrip spheres to 1 mixed kit. Apply at 350-400 sf/gal (4 wet mils) to yield 4 dry mils. Note: Installing the Optional Texture Coat thicker than 4 wet mils will cause the Neogrip spheres to sink into the 70869/70819 coating, thus eliminating the desired slip-resistant texture.

G. Applicator is responsible for applying sufficient coating to the substrate.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.
- B. Refer to the Preventive Maintenance Manual for Neogard Floor Coating Systems for typical cleaning methods.

3.5 PROTECTION

- A. After completion of application, allow system to cure for 12–14 hours at 75°F/23°C before allowing foot traffic; 24 hours before allowing heavy load.

END OF SECTION

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This Guide Specification ("Guide Spec") relates to the supplied products/system ("System") and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the Guide Spec current as of the time of delivery. In addition to the Guide Spec, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at www.neogard.com (the "Additional Documents"):

No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this Guide Spec and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheets current as of the time of delivery of the System and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the System, and Neogard disclaims all responsibility for any use, handling and storage of any components of the System that are not in accordance with the requirements set forth in the relevant PDS(s), this Guide Spec and the Additional Documents. The terms and provisions hereof apply to this Guide Spec, the Additional Documents and any other documents supplied by Neogard in respect of the System. The System is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE SYSTEM.

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