



Guide Specification Warehouse Flooring System

PART I – GENERAL

1.01 DESCRIPTION

A. Specified Work:

1. Paving and Surfacing: Section 0261 _____.
2. Site Improvements: Section 0272 _____.
3. Expansion and Contraction Joints: Section 0315 _____.
4. Cast-in-Place Concrete: Section 0330 _____.
5. Sealants: Section 0790 _____.

B. System Description:

1. The warehouse flooring system is a complete system of compatible materials manufactured by Neogard to create a seamless, abrasion resistant wearing surface.
2. The warehouse flooring system is designed for application on the specific type of substrate indicated on the drawings.

1.02 QUALITY ASSURANCE

- A. Supplier: The WG-32 flooring system, as manufactured by Neogard, is approved for use on this project.
- B. Applicator: Applicators shall be approved by Neogard as licensed applicators.

1.03 SUBMITTALS

- A. Product Data: Product data and installation instructions are contained herein.
- B. Samples: Submit samples of specified WG-32 flooring system. Samples shall be construed as examples of finish only.
- C. License Certificate: Submit a currently dated Applicator's License Certificate issued by Neogard. The certificate shall verify the applicator's qualifications to properly install the WG-32 flooring system.
- D. Limited Warranty: Upon completion of installation of the WG-32 flooring system, submit Limited Warranty.

1.04 PRODUCT DELIVERY, STORAGE & HANDLING

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with suppliers 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.

1.05 JOB CONDITIONS

A. Environmental Conditions:

1. Do not proceed with application of materials when substrate is less than 50°F (10°C).
2. Do not apply materials unless surface to receive coating is clean and dry.
3. Moisture content of concrete not to exceed four pounds per 1,000 square feet per 24 hours when tested by the referee or the quantitative calcium chloride test method.

B. Safety and Health Conditions:

1. During coating application, it is **essential** that maximum effort is made to protect the coating mechanic and others near the workplace from breathing vapors and coming in contact of material with skin or eyes.
2. In confined areas, the best form of protection against organic solvents or other potentially sensitizing vapors is a **fresh air supply**. For maximum protection, it is recommended to use NIOSH/MSHA-approved, self-contained breathing apparatus with a full-face piece operated in a positive pressure mode.
3. In unrestricted areas, it is recommended to wear a suitable mask or respirator of a type approved by NIOSH/MSHA.
4. To prevent excessive skin contact with the material, it is recommended to use fabric coveralls and neoprene or other resistant gloves. To prevent eye contact, wear a full-face mask or OSHA-approved protective goggles.

C. Protection:

1. Keep products away from heat, sparks and flames. Post "No Smoking" signs.
2. Vapors from coatings can carry considerable distances and care should be taken to do the following:
 - a. Post warning signs a minimum of 100 feet from the work area.
 - b. Cover all intake vents near the work area.
 - c. Set up windbreaks when needed.
 - d. Minimize or exclude all personnel not directly involved with the coating application.
 - e. Have CO₂ or other dry chemical fire extinguisher available at the jobsite.
 - f. Provide adequate ventilation.
3. After completion of application, do not allow heavy traffic on coated surfaces for a period of

at least 48 hours @75°F (23.8°C), or until completely cured 7 days @ 70°F (21.1°C).

4. Protect plants, vegetation and animals, which might be affected by coating. Use drop cloths or masking as required.

PART II – PRODUCTS

2.01 MATERIALS:

A. WG-32 Flooring Materials:

1. Primer: 70708/70709 clear epoxy.
2. Epoxy: 70708/70709 clear or pigmented.
3. Crack Filler: 70718/70719 or other flexible epoxy approved by Neogard.
4. Sealant: 70991 or others approved by Neogard.
5. Fillers: Fumed silica and blended aggregates.
6. Texture: Neogrip spheres.

2.02 PERFORMANCE CRITERIA:

- A. Minimum performance requirements for the 70708/70709 used on this project are:

CURED RESIN PERFORMANCE		
Description	Test Method	Results
Compressive Strength	ASTM D 695	6,200 psi
Tensile Strength, Min.	ASTM D 638	4,600 psi
Elongation @ Break	ASTM D 638	13%
Flexural Strength	ASTM D 790	5,000 psi
Modulus of Elasticity	ASTM D 790	56,900 psi
Shore D Hardness	ASTM D 2240	80
Adhesion	ASTM D 4541	400 psi
Taber Abrasion 1000 Rev., cs17	ASTM D 4060	0.11 g
Water Resistance MVT	ASTM D 570 ASTM E 96	<2% 0.10 Perm @ 20 mils

PART III – EXECUTION

3.01 INSPECTION

- 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 approval from Neogard.
3. That damaged areas of the concrete substrate be restored to match adjacent areas. Use 70708/70709 epoxy and oven dry silica aggregate approved by Neogard for filling and leveling at a ratio of one part 70708/70709 epoxy mixed with four parts aggregate by volume.

3.02 PREPARATION

- A. SURFACE Preparation: Steel shot-blast the surface to remove surface contaminants. Proper care and procedure should be taken to leave the concrete surface as unopened as possible. Note: Steel shot-blasting 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. An improper steel shot-blast can cause “pinholes” in the concrete surfaces which can result in blister problems during the application of the WG-32 flooring system.

- B. 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.
- C. Moving Cracks: Route all large cracks, remove dust and debris, and fill flush 70718/70719 flexible epoxy or other flexible epoxy approved by Neogard.
- D. Moving Control Joints: Seal secondary control joints with 70991 or other polyurethane sealant approved by Neogard. 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.
- E. Non-moving Cracks or Control Joints: After shot-blasting, fill all non-moving cracks with 70708/70709 mixed with fumed silica to form a paste. The mix ratio is one part 70708/70709 to 2 (up to 3) parts fumed silica by volume.
- F. Surface Condition: Surface shall be clean and dry prior to coating. Moisture content of concrete is not to exceed four pounds per 1,000 square feet per 24 hours when tested by the referee or quantitative calcium chloride test method.

3.03 APPLICATION

- A. Primer: Mix 70708/70709 clear epoxy at a ratio of 2:1 for three minutes. Apply at a minimum of 200 square feet per gallon (8 mils dft). Primer should be tack free before applying base coat.
- B. Base Coat: Mix 70708/70709 clear or pigmented at a ratio of 2:1 by volume for three minutes. Apply material at a minimum rate of 130 square feet per gallon (12 mils dft) and allow to cure 8 to 12 hours @ 70°F (21.1°C) or until tack free.
- C. Top Coat: Mix 70708/70709 clear or pigmented at a ratio of 2:1 for three minutes. Apply material at a minimum rate of 130 square feet per gallon (12 mils dft) and allow to cure for 24 hours @ 70°F (21.1°C) before allowing foot traffic.
- D. Optional Neogrip Textured Finish: To achieve a cleanable limited slip-resistant surface, add Neogrip Spheres to a third topcoat. The coverage rate for the final topcoat must be applied at 350 to 400 square feet per gallon to yield an

average nominal thickness of 4 mils dft. Note: Installing the Neogrip Spheres thicker than 4 mils dft will cause the Neogrip Spheres to sink into the 70708/70709 coating, thus eliminating the desired Neogrip slip-resistant texture.

3.04 CLEANING

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

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. The Licensed Neogard 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. 060601WG32.p65

NEOGARD

Div. of Jones-Blair

6900 Maple Avenue - P.O. Box 35288 - Dallas, Texas 75235 - Phone 214/353-1689 - Fax 214/357-7532

F2240-01