



Guide Specification

PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a vehicular/pedestrian traffic 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. TrafficTuff shall be a complete system of compatible materials supplied by NEOGARD® to create a high performance vehicular/pedestrian traffic flooring system for concrete slabs-on-grade or for substrates with no waterproofing requirements.
- B. TrafficTuff 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 vehicular/pedestrian traffic 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 TrafficTuff system.
- E. Warranty: Submit copy of manufacturer's standard warranty to cover a period of one year.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: TrafficTuff, 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. TrafficTuff:
 1. Epoxy: 70714/70715-09 clear.
 2. Epoxy Seal Coat: 70714-XX/70715-09 pigmented.
 3. Crack Filler: 70718/70719 flexible epoxy or other flexible epoxy approved by NEOGARD®.

4. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.
5. Fillers: PI934 fumed silica and 7992 blended aggregates.
6. Exterior Optional Coat: 70805/7952 pigmented chemical resistant urethane (CRU) or Acrylithane HS2/99951.

2.3 MATERIAL PERFORMANCE CRITERIA

- A. Typical performance requirements for the vehicular/ pedestrian traffic coating used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM		
PHYSICAL PROPERTIES	TEST METHOD	RESULTS
Compressive Strength	ASTM D695	15,000 psi
Tensile Strength	ASTM D638	2,000 psi
Elongation	ASTM D638	40%
Flexural Strength	ASTM D790	1,900 psi
Flexural Modulus	ASTM D790	62,000 psi
Shore D Hardness	ASTM D2240	77
Adhesion	ASTM D4541	400 psi
Taber Abrasion (cs17)	ASTM D4060	61 mg/1,000 rev
Water Resistance	ASTM D570	0.17%
MVT @ 10 mils	ASTM E96	0.18 Perm
Impact Flexibility	ASTM D6905-03	Pass @ 120 in/lb

2.4 ACCESSORIES

- A. Miscellaneous materials such as cleaning agents, fabric reinforcement, drains, etc. shall be a composite part of the coating system and shall be compatible with the specified TrafficTuff system.

2.5 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 superior chemical resistant 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 PI934 fumed silica to form a paste. The mix ratio is one part 70714/70715-09 epoxy to 2 (up to 3) parts PI934 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. Base Coat: Mix 70714/70715-09 clear at a ratio of 2:1 by volume. Apply at a rate of 100 square feet per gallon (16 mils wft) to prepared substrate with a notched squeegee, notched trowel or short nap (3/8") phenolic core roller. Back roll with a short-napped phenolic core roller.

- B. Aggregate: Broadcast 7992 blended aggregate into wet epoxy base coat until refusal at a rate of approximately 40 pounds per 100 square feet. Maintain a one to two foot wet edge without any aggregate to allow for a smooth transition to the next pass of neat epoxy. Allow to cure 8 to 12 hours @ 70°F (21.1°C). Remove excess aggregate and lightly sand with a circular floor sander to remove any rough spots.
- C. Seal Coat: Mix 70714-XX/70715-09 pigmented at a ratio of 2:1 for three minutes. Apply seal coat of 70714-XX/70715-09 pigmented at a rate of 100 square feet per gallon (16 mils wft) and allow to cure 8 to 12 hours @ 70°F (21.1°C) or until tack free. For color options, refer to the NEOGARD® Color Chart.
- D. Exterior Optional Coat: Apply coat of pigmented CRU 70805/7952 or Acrylithane HS2/99951 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 or 48 hours at 75°F (23.8°C) for heavy traffic.

3.4 CLEANING

- A. Remove debris resulting from completion of coating operation from the project site.

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).

END OF SECTION

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