



APPLICATION INSTRUCTIONS

Flowfresh™ HF

Trowel-applied, heavy-duty, antimicrobial treated cementitious urethane floor system.

1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for installing Flowfresh HF trowel-applied, heavy-duty, antimicrobial treated cementitious urethane mortar.
- 1.2 The techniques involved may require modifications to adjust to jobsite conditions. Consult your Tremco Representative for specific design requirements.

2. SCOPE

- 2.1 This document will provide the necessary instructions for the application of Flowfresh HF cementitious urethane mortar to qualify for the manufacturer's warranty. Tremco recognizes that site-specific conditions, weather patterns, contractor preferences, and system detailing may require deviation or alteration from these prescribed installation procedures. When such circumstances and situations exist on a project, Tremco recommends that the local Tremco Sales Representative or Technical Services be contacted for assistance and approval as required.

3. POSSIBLE SYSTEM COMPONENTS

- Flowfresh Base A
- Flowfresh Hardener B
- Flowfresh HF Filler C
- Pigment Pack (optional)

A standard unit of Flowfresh HF includes one Flowfresh Base A Single Pack (5 lb), one Flowfresh Hardener B Single Pack (5 lb), one Flowfresh HF Filler C, and one Pigment Pack.

- a. This unit covers approximately 21 sq ft when applied at 1/4" thickness.
- b. This unit covers approximately 17 sq ft when applied at 3/8" thickness.

4. SUBSTRATE PREPARATION

- 4.1 Surfaces to be coated should be sound and provide adequate strength for the proposed end use with a minimum compressive strength of 3000 psi. Substrate should be surface dry and free from excessive rising moisture.
- 4.2 Blasting or scarifying removes laitance. Irregularities, damage, and cracks can be filled with epoxy mortar or with Flowfresh HF.
- 4.3 Anchor grooves, at least 1/4" wide and 1/4" deep, must be cut at 6" perimeter along all walls, edges, pillars, doors, drainage channels, grid drains and penetrative joints.
- 4.4 All moving joints must pass through the coating and must be sealed tight. Anchor grooves must be cut on both sides of such joints. Welded joints and cracks in the concrete may be coated, but if movement occurs the coating will also crack.
- 4.5 All residues must be removed to provide a dry, dust free open textured surface. The surface profile and levels should be appropriate for the system to be applied.
- 4.6 Contact Tremco Technical Services if there are impurities, such as oils etc., in the concrete.

5. PRIMER

- 5.1 Flowfresh HF does not normally require a primer. In the case of a highly porous substrate contact Tremco Technical Services.

6. MIXING

- 6.1 Pour Base A into a suitably sized mixing vessel (e.g. a Kol mixer) and add the pigment pack and mix using a slow speed drill and helical spinner for 20 seconds.

- 6.2 Add all of Hardener B and mix for 30 seconds and then add Filler C whilst mixing. Ensure that all fillers and resins are scraped into the mix from the sides of the mixing vessel otherwise bubbles/blisters can develop in the applied floor. Continue mixing until a homogenous mixture is obtained (90 seconds). Consistent mixing time of batches is important to ensure color consistency.

7. APPLICATION

- 7.1 Apply Flowfresh HF at 21 sq ft/unit (1/4") or 17 sq ft/unit (3/8") as specified.
- 7.2 Pour the material into a screed box (laying box) that is set to a depth which is 1/16" greater than the required thickness. Pull the box slowly (across the width of the area to be applied) allowing the material to flow from the bottom of the box and achieve consistent coverage. The surface can then be compacted and finished with a trowel.
- 7.3 Alternatively, the mixed product can be poured out directly to the floor, spread to the desired thickness and finished with a trowel.
- 7.4 Further finishing can be done by lightly rolling the surface with a ¼" nap roller to even out the surface and reduce trowel marks. Excessive rolling reduces texture and can lead to pin holes in the resin rich surface. Finishing must be completed as quickly as possible and within 5 minutes after the material has been applied. The roller head must be replaced regularly (approx. every 500 sq ft) to prevent resin curing on the roller.
- 7.4 Maximum application width is determined by material and ambient temperature conditions, which affect the working life of the product and determines the speed of installation/manpower.
- 7.5 As a guide (for substrate and material temperatures up to 70°F) a competent team of 4-5 men could lay a maximum bay width of 30 feet. At higher temperatures the bay width should be reduced by up to 50%.

8. MISCELLANEOUS

- 8.1 Flowfresh products are often multiple-component systems. Poor mixing, or incorrect mixing procedures, can result in irregular and incomplete hardening, which in turn can result in an inferior result.
- 8.2 The temperature should be at least 60°F to achieve the best results during application. The temperature of the substrate should be at least 50°F, although a temperature of 60-80°F is recommended.
- 8.3 The temperature of the substrate should exceed the "dew point" by more than 5°F during application and hardening.
- 8.4 The product should be stored in such a way that the temperature is the same as the room temperature where the product is to be applied, i.e. between 60-80°F. This improves the mixing, flow, penetration and hardening of the product.
- 8.5 Installed Flowfresh HF can be opened to light traffic after 12 to 14 hours and full traffic after 24 to 36 hours. Full Chemical cure takes 5-7 days.
- 8.6 There are often several types of products at a workplace. Sort the products separately to avoid mistakes.
- 8.7 It is important that the material is kept warm, to maintain its fluidity. It is also necessary to warm up the filler component; otherwise, it will act as a heat sink and cool down the mixture.

9. CLEANING

- 9.1 Clean tools immediately after use in solvent or thinners.