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## TILE 3-PART SPECIFICATIONS

**TECHNICAL SUPPORT 800.345.6202**

### **PART 1 – GENERAL INFORMATION**

#### **1.01 SUMMARY**

- A. This section deals with resilient flooring found in the drawings and schedules of the contract that meet the requirements of this section.

#### **1.02 RELATED SECTIONS**

- A. Section 3 – Cement: Not covered in this section.
- B. Section 6 – Wood and plastic: Not covered in this section.
- C. Section 7 – Thermal and humidity protection: Not covered in this section.
- D. Section 9 – Other sections containing information related to floor finishes: Not covered in this section.

#### **1.03 REFERENCES (INDUSTRY STANDARDS)**

- A. ASTM F 710: Practice for Preparing Concrete Floors to Receive Resilient Flooring.
- B. ASTM E 648: Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.
- C. ASTM E 662: Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- D. ASTM F 1869: Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- E. ASTM F 2170: Determining Relative Humidity in Concrete Floor Slabs Using in Situ Probes.

#### **1.04 ITEMS TO DELIVER**

- A. Provide the product's Technical Specifications data sheet as well as all Installation and Maintenance Instructions.
- B. When required, supply floor drawings and installation plans.

- C. Supply a set of samples measuring at least 3" by 6" of the complete range of colors and finishes chosen for the project.
- D. When required, provide Expanko Resilient Flooring's attestation, certified by an independent laboratory, confirming that the flooring complies with the fire standards of the following tests:
  - 1. ASTM E 648; Critical Radiant Flux: 0.45 watts/cm<sup>2</sup> or more
  - 2. ASTM E 662; Smoke Density: 450 or less
- E. Provide Expanko Resilient Flooring's Warranty Certificate.

### **1.05 QUALITY ASSURANCE**

- A. Have Expanko Resilient Flooring flooring installed by a qualified installer of this type of flooring.
- B. In accordance with the technical instructions in the Installation Instructions, use all the accessories recommended by Expanko Resilient Flooring when installing its flooring.
- C. Follow the instructions specified in the most recent version of Expanko Resilient Flooring's Installation Instructions.

### **1.06 DELIVERY, HANDLING, STORAGE**

- A. Deliver the flooring to the installation site in Expanko Resilient Flooring's original packaging. Indicate the project name and handling instructions on the outside of the boxes.
- B. Advise the carrier of any damaged material and indicate it on the packing slip.
- C. Store the flooring inside, sheltered from extreme hot or cold temperatures. Place the material on a smooth level floor or where there is uniform solid support in a clean, dry well-ventilated area. Unstack the pallets. The long-term storage temperature must be maintained between 65°F and 75°F. Protect adhesive and flooring material from freezing, extreme heat and direct sun exposure.
- D. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 65°F and 75°F. The pallets should be unstacked 24 hours prior to use.
- E. Afterwards, maintain the room temperature between 65°F and 85°F. Protect the material from direct sources of heat such as air vents and other types of heaters.
- F. Install the flooring after all other finishing work, including painting, have been completed.

## **PART 2 - PRODUCTS**

### **2.01 MANUFACTURER**

- A. Expanko Resilient Flooring  
180 Gordon Drive  
Suite 107  
Exton, PA 19341  
800.345.6202  
[www.expanko.com](http://www.expanko.com)

## **2.02 RESILIENT FLOORING DESCRIPTION**

### **A. Characteristics:**

1. Sereniti Rubber Flooring
2. Thickness: 1/8" (3.17 mm)
3. Sizes:
  - 35-11/16" x 35-11/16" (905 mm x 905 mm)
  - 17-13/16" x 17-13/16" (452 mm x 452 mm)
4. Complies with ASTM F 1344, Class I, A or B.
5. Sereniti Rubber Flooring is not recommended for environments where it could be exposed to oils and greases, whether mineral, animal or vegetable.
6. Refer to the product's Technical Specifications data sheet for detailed specifications.
7. Choose from any of Expanko Resilient Flooring's complete line of colors (indicate the item number).
8. Sereniti Rubber Flooring has FloorScore certification.
9. This product was manufactured in a factory that has ISO 9001 and ISO 14001 certifications.

## **2.03 ADHESIVES**

- A. Either use Expanko Resilient Flooring's AD-777 or AD-535 adhesive. AD-777 and AD-535 both cover 200 sq. ft. /gallon when applied with the recommended notched trowel.

## **2.04 OTHER MATERIAL**

- A. Subfloor repairs: Use a good-quality Portland cement-based compound modified with latex that has a minimal resistance to compression of 3,500 lbs/sq. in. to fill, smooth or level subfloor imperfections.
- B. Self-levelling underlayment: use a Portland cement-based self-levelling underlayment modified with a polymer that has a minimal resistance to compression of 3,500 lbs/sq. in.

## **PART 3 – EXECUTION**

### **3.01 SITE INSPECTION**

- A. Examine the subfloor before installation to ensure that the surface is clean, dry, smooth, structurally sound and free from foreign substances that may adversely affect adhesion or cause discoloration. Furthermore, ensure that the subfloor is free of paint, varnish, adhesive, oil, grease, solvent and other foreign substances, including treatment compounds and demolding products, sealers and curing compounds that may adversely affect adhesion or alter the appearance or durability of the vinyl flooring.
- B. Verify the surface to ensure there is no powder, scaling or mold. If there is, remove it with a mechanical sander and level with a good-quality cement-based Portland primer.
- C. Slabs that have been either using a curing agent or a sealer will have to be treated to insure that the adhesion has not been impaired.
- D. Do not install on cement slabs that have been subjected to adhesive chemical abatement, unless an approved remediation system was used afterwards.

- E. Report and rectify all unsatisfactory conditions. Do not start flooring installation until all rectifications have been completed.

### **3.02 SUBFLOOR PREPARATION**

- A. Level all rough surfaces and fill cracks and marks with a Portland cement-based patching compound modified with latex.
- B. Mechanically remove all surface contaminants such as paint, oil, grease, varnish, adhesive as well as various other products such as treatment compounds and demolding products.
- C. Measure the humidity and pH levels in the cement in compliance with the following standards before installation:
  - a. ASTM F 1869, Anhydrous Calcium Chloride test for Moisture levels. The maximum allowable reading is:
    - 5 lbs/1,000 sq. ft./24 hours for the AD-777 and AD-535 adhesives
  - b. ASTM F 2170, Relative Humidity (RH) test using in situ probes. The maximum allowable reading is 80% RH for AD-777 and 85% RH for AD-535.
  - c. ASTM F 710, pH levels (test procedure 5.3.1). The readings should be between 8 and 10
  - d. The ASTM test frequency recommendation is 3 measures for the first 1,000 sq. ft. and one measure for each additional 1,000 sq. ft.
- D. Ensure Moisture, Relative Humidity and pH tests have all been conducted and measurements meet manufacturer's recommendations.
- E. Test the adhesion on the cement subfloor or other surface that will be covered by the flooring. Complete the test using the specified flooring and recommended adhesive.

### **3.03 RESILIENT FLOORING INSTALLATION**

- A. Install the flooring according to the latest version of Expanko Resilient Flooring's Installation Instructions. Use the tools, adhesives, trowel types and procedures recommended in the instructions.
- B. Acclimatize the subfloor, all flooring material and adhesive for 48 hours before, during and after the installation by maintaining the room temperature between 65°F and 75°F. Afterwards, maintain the temperature between 65°F and 85°F.

### **3.04 CLEANING AND PROTECTION**

- A. Remove all excess adhesive immediately after installation as recommended in Expanko Resilient Flooring's Installation Instructions.
- B. Before allowing traffic after installation, consult and follow the recommendations in Expanko Resilient Flooring's Installation Instructions.
- C. Following installation and clean-up, if the work of all other trades has not yet been completed, protect the flooring by laying sheets of non-staining brown Kraft paper, and then a layer of plywood sheets (rolls of non-staining heavy cardboard material could also be used for protection).
- D. Follow the instructions in Expanko Resilient Flooring's Maintenance Instructions when performing initial and regular maintenance procedures.