

## **Concrete Flex – CSI Spec: 09 3095**

### **CONCRETE WALL PANELS**

#### **1.03 QUALITY ASSURANCE**

##### **A. Qualifications:**

###### **1. Manufacturer Qualifications:**

- a. Use of low-VOC, E0 Compliant, and CARB compliant components, adhesives and finishes in manufacturing production process.
- b. Prior production of material for no less than 3 years.

#### **1.04 DELIVERY, STORAGE, AND HANDLING**

A. Deliver wall tile/paneling to project site, or fabrication site, not less than 5 days prior to start of installation (to allow for suitable acclimation). Open boxes to increase acclimation.

#### **1.05 PROJECT/SITE CONDITIONS**

A. Environmental Requirements: Installation spaces, flooring and adhesive must be maintained at normal occupancy temperature and humidity levels (HVAC working) for minimum of 48 hours prior to installation.

#### **1.06 WARRANTY**

##### **A. Special Warranty:**

1. Sustainable Materials' Structural Warranty: 10 years against delamination or Separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.

### **PART 2 – PRODUCTS**

#### **2.01 MANUFACTURER**

- A. Vasco Emanuel Lda. (ie: Muratto)  
Rua Pedro Homem de Melo, 432, 1 esq  
Porto 4150-598  
Portugal  
  
Distributor (North America):  
Sustainable Materials LLC  
5403 Western Ave #C  
Boulder, CO 80301  
USA  
  
Tel: (720) 449-3063  
e-mail: [info@sustainablematerials.com](mailto:info@sustainablematerials.com)  
Website: <http://www.sustainablematerials.com/muratto>
- B. Concrete Flex:
  - a. Light
  - b. Dark
  - c. White
  - d. Black
- C. Substitutions: None Permitted.

## **2.02 MATERIALS**

### A. Concrete Flex

#### 1. Size:

##### a. Interior

1. 1000mmx 490mm x 1.7mm to 2mm (approx. 39-3/8" x 19-1/3" x 1/12")
2. Square Edge
3. Coverage = 5.27 sq.ft./tile
4. 10 panels per box (52.70 sq. ft. per box)

##### b. Exterior

1. 1000mmx 490mm x 2.5mm to 3mm (approx. 39-3/8" x 19-1/3" x 1/8")
2. Square Edge
3. Coverage = 5.27 sq.ft./tile
4. 10 panels per box (52.70 sq. ft. per box)

#### 3. Physical Property Performance Requirements:

- a. Composition: Concrete with Acrylic Binder
- b. Fire-rating (per ASTM E84): Process of Being Tested

B. Installation Adhesive: Contact Cement (Wakol Loba D3540) or Trowel Adhesive (Mapei Eco 373)

C. Finish: Material comes Unfinished. Finish is optional onsite but for heavy traffic areas a stone sealer is recommended.

## **PART 3 - EXECUTION**

### **3.01 EXAMINATION**

#### A. Examine substrate(s) to which Concrete Flex will be applied:

1. Components must be clean, dry, and free of contaminants that would interfere with adhesive bond.
2. Drywall or other wall substrate will need 'priming' (or sealing) to ensure suitability for either method of installation.

C. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.

D. If either of the above conditions are not met, coordinate with responsible entity to correct unsatisfactory conditions.

### **3.02 PREPARATION**

A. Acclimatization: Open all Concrete Flex packaging to allow the material to acclimate for a minimum of 72 hours prior to the start of the installation.

B. Fix substrate if needed (as per Examination needs and those relating to the adhesive bond per the instructions of the adhesive selected for use).

### **3.03 INSTALLATION**

- A. Find Center: using a chalk line, find the symmetrical axes of the wall sides to determine starting point. Measure from the middle to ensure that the edge pieces (those against the adjacent walls) are identical in size and greater than 2" in width.

- B. Find Center: using a chalk line, find the symmetrical axes of the wall sides to determine starting point. Measure from the middle to ensure that the edge pieces (those against the adjacent walls) are identical in size and greater than 2" in width.
- C. Follow the Manufacturer's installation instructions of the adhesive selected. Recommended adhesives: D3540 Contact adhesive OR Mapei Ecobond 373
- D. Install in pattern suitable based on specification plans.
- E. Press tiles into place (per adhesive Manufacturer's instructions and dry time requirements)

### **3.04 CLEANING and MAINTENANCE**

- A. Clean and maintain in accordance with guidelines presented in Installation Guidelines.

With any questions, or for this in a digital format, contact:

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