

**3.23sc**

**CEILCOTE® 683 FLOORING**  
*Semiself-leveling, epoxy flooring system*  
*for*  
**CONCRETE SUBSTRATES**

**NOTES TO THE SPECIFIER**

The following specification information below is intended for use by architects, engineers or other specifiers in defining the criteria needed to specify this semiself-leveling, epoxy flooring system.

1. This document has been prepared to assist specifiers in the preparation of specifications for CEILCOTE® 683 Flooring, a Master Builders® Inc., CEILCOTE Corrosion Control Product.
2. This document was prepared as part of a complete specification for new construction or the renovation and upgrading of existing structures.
3. This specification defines the necessary practices for surface preparation and application of CEILCOTE 683 Flooring along with tolerances where applicable.
4. Application under this specification must be done in accordance with the standard installation procedures and related documents.
5. Questions regarding the selection, installation or intended end use of Master Builders Inc., CEILCOTE corrosion control products should be directed to Master Builders, Inc.

**1.0 GENERAL**

**1.1 SCOPE**

- A. This specification covers the surface preparation and application of CEILCOTE 683 Flooring as normally encountered in field installations.
- B. Deviations from this specification due to unforeseen or unknown field conditions, must be authorized by Master Builders.
- C. The contractor shall furnish all materials, tools, equipment, appliances, transportation, labor and supervision required during the preparation and installation process.

**1.2 PRE-QUALIFICATION**

- A. Applicator of material must be approved by material manufacturer and have at least (5) years experience in the application of this product or similar systems. Previous experience must be verified by (3) references having similar applications.
- B. Contractor(s) seeking approval of substitute materials shall submit their request in writing to the specifier at least 7 days before closing of bids. Include samples; complete performance data; certification from independent testing laboratory regarding conformity with specifications and list of completed successful installations, with phone number of responsible person to contact, to enable accurate appraisal of the system. Bidders shall be notified of acceptable substitute flooring by written addendum or amendment.

### **1.3 APPLICABLE STANDARDS AND TEST METHODS**

Physical properties and test methods for CEILCOTE 683 Flooring are listed in CEILCOTE 683 Flooring technical bulletin and installation procedures.

.1 Other reference documents include: CEILCOTE 680 Primer Data Sheet and CEILCOTE Standard Specification for Concrete to Receive Monolithic Linings and Toppings - CPT-1.

### **1.4 PROJECT/SITE CONDITIONS**

.1 For all application steps, the surface temperature, air temperature and material temperature should be between 50 degrees F (10 degrees C) and 110 degrees F (43 degrees C).

Do not apply if the relative humidity is more than 90% or the surface temperature is less than 5% above the dew point of the air in the working area.

.2 Adequate ventilation and clean water supply required during installation.

### **2.0 PRODUCTS**

#### **2.1 ACCEPTABLE MANUFACTURER**

.1 Master Builders, Inc., 23700 Chagrin Boulevard, Cleveland, Ohio 44122-5554, 216/831-5500 or 1-800-MBT-9990.

.2 Master Builders Technologies Ltd. 3637 Weston Road, Toronto, Ontario, Canada, M9L 1W1, 416-741-3830 or 800-387-5862.

.3 Tecnocreto, S.A. de C.V., Blvd. M. Avila Camacho #80, 3er Piso, 53390 Naucalpan, Mexico 011-525-557-5544.

### **2.2 MATERIALS**

.1 Materials for CEILCOTE 683 Flooring include:

- CEILCOTE 680 Primer and Hardener
- CEILCOTE 683 Topcoat and Topcoat Hardener
- CEILCOTE 683 Grit Coat and Grit Coat Hardener

**OR**

- Finish Coat and Hardener
- Appropriate Grit (1/2, 1, 2 or 3)
- T-471 Thinner

### **3.0 EXECUTION**

#### **3.1 INSPECTION**

.1 Before starting work, ensure environmental and site conditions are suitable for application and curing.

.2 Inspect surface for acceptability.

.3 Any and all deficiencies shall be reported in writing.

### **3.2 PREPARATION**

- .1 Surface conditions to apply the CEILCOTE 683 Flooring system requires the removal of dirt, oil, sealers, soft concrete, laitance and chemical contamination. Method to be used may include, but should not be limited to, abrasive blasting, and/or mechanical abrasion.
- .2 Concrete must be dry. CEILCOTE 683 Flooring will not tolerate the presence of moisture during application or cure.
- .3 Concrete quality must be addressed before the CEILCOTE 683 Flooring can be applied. These conditions are air pockets, pinholes, tieholes, form burrs, honeycombs and cracks. CEILCOTE standards are to be used as guidelines for concrete repairs.

### **3.3 PROTECTION**

- .1 Traffic Control - no individuals permitted in areas during application and until surface has cured, including protection after cure, against damage by others working in or over the area.
- .2 Compliance with OSHA, EPA, State and Local regulations or applicable agencies is mandatory when using these products.

### **3.4 INSTALLATION/APPLICATION**

- .1 Primer shall be CEILCOTE 680 Primer, Epoxy concrete resin and hardener. It shall be applied by brush or roller to a film thickness of 3 to 5 mils (WFT), as per CEILCOTE 680 Primer data sheet. Ingredients are to be mixed thoroughly and applied to concrete. Working time at 75°F is approximately 45 minutes.
- .2 Topcoat shall be a flexible, semiself-leveling layer applied with a serrated squeegee yielding a thickness of 30 to 50 mils.
- .3 Grit Coat shall be a particle filled resin coat, roller applied, to attain a surface texture.

#### **OR**

Finish (Satin) if smooth texture is necessary (in lieu of Grit Coat).

- .4 Installation Bulletin provides further details on procedures listed previously.

### **3.5 TESTING**

- .1 During the application of the topcoat, random wet film thickness readings shall be taken. Target thickness shall be 30 to 50 mils.

**MASTER BUILDERS, INC.**

**United States**

23700 Chagrin Blvd.  
Cleveland, OH 44122  
(800) MBT-9990  
Fax (216) 831-6910

**Canada**

3637 Weston Road  
Toronto, Ontario M9L 1W1  
(800) 387-5862  
Fax (416) 741-7925

**Mexico**

Bld. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, Mexico  
011-525-557-5544  
Fax 011-525-395-7903

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