



12/1/93

MASTER BUILDERS TECHNOLOGIES

3.12S

**CEILCOTE 163 COROCRETE\***

*For Concrete Substrates*

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NOTES TO THE SPECIFIER

- 1. This document has been prepared to assist specifiers in the preparation of specifications for **CEILCOTE 163 COROCRETE**, 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 Corocrete 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.

\* This specification may only be used for CEILCOTE 163 COROCRETE.

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## **GUIDELINE SPECIFICATION**

### ***CEILCOTE 163 COROCRETE***

#### **(Concrete)**

The specification information below is intended for use by architects, engineers or other specifiers in defining the criteria needed to specify these polyester/vinyl ester lining and flooring systems.

#### **1.0 GENERAL**

##### **1.1 SCOPE**

This specification covers the surface preparation and application of CEILCOTE 163 Corocrete as normally encountered in field installations.

Deviations from this specification due to unforeseen or unknown field conditions, must be authorized by Master Builders.

The contractor shall furnish all materials, tools, equipment, appliances, transportation, labor and supervision required during the preparation and installation process.

##### **1.2 PRE-QUALIFICATION**

Applicator of material must be approved by material manufacturer and have at least (5) years experience in the application of this or similar systems. Previous experience must be verified by (3) references having similar applications.

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 lining/flooring by written addendum or amendment.

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

Physical properties and test methods for CEILCOTE COROCRETE Series are listed in CEILCOTE 163 COROCRETE TECHNICAL DATA SHEET.

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- .1 Other reference documents include: CEILCOTE 163 COROCRETE INSTALLATION PROCEDURES, Ceilcote Standard Specification for Concrete to Receive Monolithic Linings and Toppings - CPT-1, and CEILCOTE 380 or 380C (Conductive) Primer Technical Data Sheet.

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

- .1 For optimum performance, the surface temperature, air temperature and material temperature should be between 50°F (10°C) and 110°F (43°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 (800) 628-9990.
- .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 (525) 557-5544.

##### **2.2 MATERIALS**

- .1 Materials for CEILCOTE 163 COROCRETE include:
  - CEILCOTE 380 Primer or 380C (Conductive) Primer and Hardener
  - CEILCOTE 163 COROCRETE Resin and Hardener
  - Appropriate Aggregate

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#### **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 163 COROCRETE 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 163 COROCRETE will not tolerate the presence of moisture during application or curing.
- .3 Concrete quality must be addressed before the COROCRETE material can be applied. These conditions are air pockets, pinholes, tieholes, form burrs, honeycombs and cracks. Master Builders standards are to be used as guidelines for concrete repair.

##### **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.

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### **3.4 INSTALLATION/APPLICATION**

- .1 Concrete and masonry surfaces must be primed with CEILCOTE 380 Primer at 2 to 4 mils.
- .2 After priming, roll, brush or spray a base coat of catalyzed CEILCOTE 163 COROCRETE Resin onto surface.
- .3 Broadcast aggregate onto surface while base coat is still tacky (**Aggregate must be completely dry**). Figure approximately 1/16" or 60 mils for each broadcast seed layer using 20-40 mesh sand. Usually 3-6 broadcast seed coats are applied depending on thickness specified.
- .4 Brush off excess aggregate after base coat has completely set.
- .5 Repeat steps 1 through 4 until desired thickness is achieved.
- .6 Apply resin topcoat after final layer of aggregate.

### **3.5 TESTING**

- .1 If sparktesting is desired, a conductive primer may be utilized and sparktested at 100 volts/mil. This also requires the CEILCOTE 380C (Conductive) Primer.

**COROCRETE 163 SPECIFICATION**

**(Concrete)**

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