

12/1/93

MASTER BUILDERS TECHNOLOGIES

2.2SS

***CEILCOTE 200 FLAKELINE SERIES \****

*For Steel 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 200 FLAKELINE SERIES***, 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 Flakeline 200 Series 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 be used for all CEILCOTE 200 FLAKELINE SERIES types including 211, 222HT, 222GF, 232, 242, 251 and 252.

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## GUIDELINE SPECIFICATION

### ***CEILCOTE 200 FLAKELINE SERIES***

#### ***(Steel)***

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 coating systems.

#### **1.0 GENERAL**

##### **1.1 SCOPE**

This specification covers the surface preparation and application of CEILCOTE 200 Flakeline Series 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 product. 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/coating by written addendum or amendment.

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

Physical properties and test methods for CEILCOTE 200 FLAKELINE SERIES are listed in CEILCOTE 200 FLAKELINE SERIES TECHNICAL DATA SHEET.

- .1 Other reference documents include CEILCOTE 200 FLAKELINE SERIES INSTALLATION PROCEDURES and CEILCOTE Standard Specification for Steel Substrate to Receive Monolithic linings - CPT-2.

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

- .1 For all application steps, 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 1-800-628-9990.
- .2 Master Builders Technologies Ltd. 3637 Weston Road, Toronto, Ontario, Canada, M9L1W1, 416-741-3830.
- .3 Tecnocreto, S.A. de C.V., Blvd. M. Avila, Camacho #80, 3er Piso, 53390 Naucalpan, Mexico Mexico 1-905-557-5544.

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### **2.2 MATERIALS**

- .1 Materials for CEILCOTE 200 Flakeline Series include:
  - CEILCOTE 370 Primer and Hardener
  - CEILCOTE 200 Flakeline Series Resin and Hardener
  - **(Optional)** CEILCOTE 100 Flakeline Series Resin Topcoat and Hardener

### **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 Steel surface must be sandblasted to "White Metal" in accordance with SSPC SP-5-89 or NACE No.1 using a clean, dry blasting media and a 3.0 mil anchor pattern.

Blasted surfaces must be primed immediately after blasting, or within an eight hour shift.

#### **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 Primer shall be CEILCOTE 370 Primer, Polyester steel primer and hardener. It shall be spray, brush or roller applied to a film thickness of 1-4 mils.

Ingredients are to be mixed thoroughly and applied to steel. Working time at 75°F (24°C) is approximately 45 minutes.

- .2 Basecoat shall be a mixture of CEILCOTE 200 Flakeline Series liquid and hardener. It shall be applied at a thickness of 20-32 wet mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into liquid. Apply immediately, working time at 75°F (24°C) is 45-60 minutes.

- .3 Topcoat shall be a mixture of CEILCOTE 200 Flakeline Series liquid and hardener. It shall be applied at a thickness of 20-32 wet mils (Same material as Basecoat).

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE 200 Flakeline then apply immediately, working time at 75°F (24°C) is 45 minutes.

- .4 **(Optional)** Resin topcoat shall be a mixture of resin topcoat liquid and hardener. It shall be applied at a thickness of 5 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into resin topcoat. Apply immediately, working time at 75°F (24°C) is approximately 45 minutes.

- \*\*\* CEILCOTE 200 Flakeline Series may be applied by means of brushing, rolling or spraying. If spraying is employed use pressure pot or special catalyst pumping methods.

Airless is also acceptable.

**CEILCOTE 222HT Flakeline can only be spray applied.**

- .5 Installation Procedure provides further details on procedures listed previously.

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### **3.5 TESTING**

- .1 During application random wet film thickness readings shall be taken. Target thickness shall be 15-25 mils for both basecoat and topcoat yielding a total target thickness of 30-50 mils.
- .2 After Topcoat is hard, spark test at 5,000 volts to ensure pinhole free lining.
- .3 CEILCOTE 222GF Flakeline cannot be sparktested because of its' conductive properties. At times CEILCOTE 232 Flakeline may be substituted for the Basecoat. Please consult Master Builders for material selection.
- .4 Dry Film Thickness Gauge may be utilized to measure thickness.

#### **Master Builders, Inc.**

##### **United States**

23700 Chagrin Boulevard  
Cleveland, Ohio 44122-5554  
(800) MBT-9990  
Fax: (216) 831-6910

##### **Canada**

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

##### **Mexico**

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, México  
011-525-557-5544  
Fax: 011-525-395-7903

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