

12/1/93

MASTER BUILDERS TECHNOLOGIES

2.2SC

CEILCOTE 200 FLAKELINE SERIES *

For Concrete Substrates

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 CEILCOTE 200 Flakeline 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.

GUIDELINE SPECIFICATION

CEILCOTE 200 FLAKELINE SERIES

(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 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 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/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 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°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 Tecnoconcreto, 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 380 **OR** 380C Primer and Hardener
- CEILCOTE 200 Flakeline Series Resin and hardener
- **(Optional)** 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 Surface conditions to apply the CEILCOTE 200 Flakeline 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 200 Flakeline will not tolerate the presence of moisture during application or curing.
- .3 Concrete quality must be addressed before the CEILCOTE 200 Flakeline 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.

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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 380 Primer, Polyester concrete primer and hardener. It shall be applied by brush or roller to a film thickness of 2-5 mils.

* To insure a pinhole free lining, utilize CEILCOTE 380C Conductive Primer and sparktest at 100 volts per mil.

Ingredients are to be mixed thoroughly and applied to concrete. 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 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 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 to 60 minutes.

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- .4 Resin topcoat (optional) shall be a mixture of resin topcoat liquid and hardener. It shall be applied at a thickness of 5-8 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 60 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.

CEILCOTE 222HT Flakeline can only be spray applied.

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

3.5 TESTING

- .1 During application random wet film thickness readings shall be taken. Target thickness shall be 15-20 mils for both basecoat and topcoat yielding a total target thickness of 30-40 mils.
- .2 If sparktesting is desired utilize the CEILCOTE 380C (Conductive) Primer -- except for CEILCOTE 222GF Flakeline (Already conductive).

Sparktest at 5,000 volts maximum.

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