

12/1/93

MASTER BUILDERS TECHNOLOGIES

2.61SC

CEILCOTE 600 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 600 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 600 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 600 FLAKELINE SERIES types including 600, 630.

GUIDELINE SPECIFICATION

CEILCOTE 600 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 flake filled epoxy coating systems.

1.0 GENERAL

1.1 SCOPE

This specification covers the surface preparation and application of CEILCOTE 600 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 system. 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 coating by written addendum or amendment.

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1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for CEILCOTE 600 FLAKELINE SERIES are listed in CEILCOTE 600 FLAKELINE SERIES TECHNICAL DATA SHEET.

- .1 Other reference documents include:CEILCOTE 600 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 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 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 600 FLAKELINE Series include:

- CEILCOTE 675 Flakeprime epoxy primer

OR

- CEILCOTE 680 or 680C (conductive) primer and hardener

- CEILCOTE 600 FLAKELINE resin 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 600 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 or mechanical abrasion.

.2 For maximum bond strength dry concrete is preferred.

.3 Concrete quality must be addressed before the CEILCOTE 600 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 675 Flakeprime Epoxy* Primer and Hardener (or CEILCOTE 680 Primer and Hardener). It shall be applied by brush or roller to a film thickness of 2-3 mils.

* **(Optional)** -- To insure a pinhole free lining, utilize CEILCOTE 680C 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 3 hours.

- .2 Basecoat shall be a mixture of CEILCOTE 600 FLAKELINE Series liquid and hardener. It shall be applied at a thickness of 8-10 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into liquid. Apply immediately, working time at 75°F (24°C) is 2-3 hours.

- .3 Topcoat shall be a mixture of CEILCOTE 600 FLAKELINE Series liquid and hardener (same material as the Basecoat). It shall be applied at a thickness of 8-10 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE 600 FLAKELINE then apply immediately, working time at 75°F (24°C) is 2-3 hours.

- .4 CEILCOTE 600 FLAKELINE Series may be applied by means of brushing, rolling or spraying. If spraying is employed use conventional or airless spray systems.

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

3.5 TESTING

- .1 During application random wet film thickness readings shall be taken. Target dry film thickness shall be 6-8 mils for both basecoat and topcoat yielding a total target thickness of 12-16 mils.
- .2 If sparktesting is desired use the CEILCOTE 680C (Conductive) Primer and sparktest at 100 volts per mil, or 2,500 volts maximum.

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