

12/1/93

MASTER BUILDERS TECHNOLOGIES

2.1SC

CEILCOTE 2000 FLAKELINE *

For Concrete Substrates

NOTES TO THE SPECIFIER

1. This document has been prepared to assist specifiers in the preparation of specifications for CEILCOTE 2000 FLAKELINE, 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 2000 FLAKELINE 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.

GUIDELINE SPECIFICATION

CEILCOTE 2000 FLAKELINE

(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 novolac coating systems.

1.0 GENERAL

1.1 SCOPE

This specification covers the surface preparation and application of CEILCOTE 2000 FLAKELINE coating 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.

CEILCOTE 2000 FLAKELINE

(Concrete)

1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for CEILCOTE 2000 FLAKELINE are listed in CEILCOTE 2000 FLAKELINE DATA SHEET.

- .1 Other reference documents include CEILCOTE 2000 FLAKELINE 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 Tecnocreto, S.A. de C.V., Blvd. M. Avila, Camacho #80, 3er Piso, 53390 Naucalpan, Mexico Mexico 1-905-557-5544.

CEILCOTE 2000 FLAKELINE

(Concrete)

2.2 MATERIALS

.1 Materials for CEILCOTE 2000 FLAKELINE include:

- CEILCOTE 675 Flakeprime epoxy primer

OR

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

- CEILCOTE 2000 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 2000 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 For maximum bond strength dry concrete is preferred.

.3 Concrete quality must be addressed before the CEILCOTE 2000 FLAKELINE can be applied. These conditions are air pockets, pinholes, tieholes, form burrs, honeycombs, cracks etc. Master Builders standards are to be used as guidelines for concrete repair.

CEILCOTE 2000 FLAKELINE

(Concrete)

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 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 finished system at 100 volts per mil.

Ingredients are to be mixed thoroughly and applied to concrete. Working time at 73°F (23°C) is approximately 3 hours.

- .2 Basecoat shall be a mixture of CEILCOTE 2000 FLAKELINE liquid and hardener. It shall be applied at a thickness of 15 - 20 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into liquid. Apply immediately, working time at 73°F (23°C) is 2-3 hours.

- .3 Topcoat shall be a mixture of CEILCOTE 2000 FLAKELINE liquid and hardener (same material as the Base coat). It shall be applied at a thickness of 15 - 20 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE 2000 FLAKELINE then apply immediately, working time at 73°F (23°C) is 2-3 hours.

- .4 CEILCOTE 2000 FLAKELINE may be applied by means of brushing, rolling or spraying. If spraying is employed use conventional or airless spray systems.

CEILCOTE 2000 FLAKELINE

(Concrete)

- .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 thickness shall be 15 - 25 mils for both basecoat and topcoat yielding a total target thickness of 35 mils.
- .2 If sparktesting is desired use the CEILCOTE 680C (conductive) primer and sparktest at 100 volts per mil, or 3,000 volts maximum.

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