

12/1/93

MASTER BUILDERS TECHNOLOGIES

1.3SC

CEILCOTE COROLINE SERIES *

For Concrete Substrates

NOTES TO THE SPECIFIER

1. This document has been prepared to assist specifiers in the preparation of specifications for **CEILCOTE COROLINE 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 COROLINE 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 COROLINE types including 505, 510, 538 and 800.

GUIDELINE SPECIFICATION

CEILCOTE COROLINE SERIES

(Concrete)

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

1.0 GENERAL

1.1 SCOPE

This specification covers the surface preparation and application of COROLINE 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 a 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 lining/flooring by written addendum or amendment.

CEILCOTE COROLINE SERIES

(Concrete)

1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for COROLINE SERIES are listed in CEILCOTE COROLINE SERIES TECHNICAL DATA SHEET and INSTALLATION PROCEDURES.

- .1 Other reference documents include: CEILCOTE 680 or CEILCOTE 680C Primer Technical Data Sheet 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.

2.2 MATERIALS

- .1 Materials for CEILCOTE Coroline Series include:
 - CEILCOTE 680 or 680C (Conductive) Primer and Hardener No.9
 - CEILCOTE COROLINE Resin and Hardener
 - Appropriate Filler (S-1, B-4, S-9(AR))
 - Cloth Reinforcement
 - T-420 Smoothing Liquid

CEILCOTE COROLINE SERIES

(Concrete)

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 COROLINE 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 COROLINE 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 repairs.

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 over the area.
- .2 Compliance with OSHA, EPA, State and Local regulations or applicable agencies is mandatory when using these products.

CEILCOTE COROLINE SERIES

(Concrete)

3.4 INSTALLATION/APPLICATION

- .1 Primer shall be CEILCOTE 680 Primer*. Epoxy concrete primer and hardener. It shall be applied by brush or roller to a film thickness of 3-5 mils (wft).

* To sparktest on concrete substitute to CEILCOTE 680C (Conductive) Primer. To insure a pinhole free lining utilize this primer and sparktest at 100 volts per mil.

Ingredients are to be mixed thoroughly and applied to concrete. Working time at 73°F (23°C) is approximately 45 minutes.

- .2 Basecoat shall be a mixture of CEILCOTE COROLINE liquid, hardener and appropriate powder. It shall be trowel applied at a thickness of 40-80 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE COROLINE liquid then add powder and continue mixing. Apply immediately, working time at 73°F (23°C) is 40 minutes.

- .3 Glass cloth shall be CEILCOTE Type "H" or other cloth reinforcement as recommended due to chemical environment. It is to be immediately pressed into the trowel applied basecoat by rolling with a paint roller.

After being totally pressed into the basecoat it is then saturated with catalyzed CEILCOTE COROLINE liquid using a paint roller and allowed to cure.

- .4 Topcoat shall be a mixture of CEILCOTE COROLINE liquid, Hardener and appropriate powder. It shall be trowel applied at a thickness of 40-80 mils.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE COROLINE liquid then add powder and continue mixing. Apply immediately, working time at 73°F (23°C) is 40 minutes. The lining shall be finished by brushing or rolling with T-420.

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

CEILCOTE COROLINE SERIES

(Concrete)

3.5 TESTING

- .1 During application random wet film thickness reading shall be taken. Target thickness shall be 60 mils for both basecoat and topcoat yielding a total target thickness of 155 mils including the glass cloth reinforcement.

(Optional) Utilize CEILCOTE 680C (conductive) primer and sparktest after topcoat is hard at 15,000 to 20,000 volts to insure pinhole free lining.

- .2 Utilizing conductive fillers, these systems cannot be sparktested.
- .3 If sparktesting is desired and a conductive filler is being utilized (B-4 Powder) use S-1 Powder in the Basecoat and sparktest before proceeding to topcoat application (at 100 volts per mil). This also requires the CEILCOTE 680 C (conductive) primer.

- * This specification may be used for all CEILCOTE COROLINE types including 505, 510 and 800. For abrasion resistant systems use "AR" designation and substitute S-9AR Powder in place of S-1, i.e. CEILCOTE 505AR Coroline (Abrasion Resistant).

For CEILCOTE 510 COROLINE substitute B-4 Powder instead of S-1.

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