

1/12/95

MASTER BUILDERS TECHNOLOGIES

1.51SC

CEILCOTE 40 CeilLine

For Concrete Substrates

NOTES TO THE SPECIFIER

1. This document has been prepared to assist specifiers in the preparation of specifications for ***CEILCOTE 40 CeilLine***, 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 40 CeilLine 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 40 Ceilline SERIES
(Concrete)

The specification information below is intended for use by architects, engineers or other specifiers in defining the criteria needed to specify this flexibilized lining system.

1.0 GENERAL

1.1 SCOPE

This specification covers the surface preparation and application of CEILCOTE 40 Ceilline 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 coating by written addendum or amendment.

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1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for CEILCOTE 40 Ceilline is listed in CEILCOTE 40 Ceilline TECHNICAL DATA SHEET.

- .1 Other reference documents include: CEILCOTE 40 Ceilline 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 1-905-557-5544.

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2.2 MATERIALS

- .1 Materials for CEILCOTE 40 CeillLine Series include:
 - CEILCOTE 680 or 680C (Conductive) Primer and hardener
 - CEILCOTE 40 CeillLine 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 40 CeillLine 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 Concrete must be dry for reliable adhesion.
- .3 Concrete quality must be addressed before the CEILCOTE 40 CeillLine 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 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 73°F (23°C) is approximately 45 minutes.

- .2 Topcoat shall be a mixture of CEILCOTE 40 CeillLine Series liquid and hardener. Apply two 20 mils (WFT) coats for vertical surfaces. Horizontal surfaces can be applied in two 20 mil coats or one 40 mil coats depending on conditions of application. It shall applied at a total thickness of 40 mils DFT.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into liquid. Apply immediately, working time at 73°F (23°C) is 45 minutes.

- .4 CEILCOTE 40 CeillLine Series may be applied by means of squeegee, rolling or spraying. If spraying is employed use conventional or airless spray.
- .5 Immediately after CEILCOTE 40 CeillLine has been applied, roll out the material with a porcupine roller to remove air that may be trapped in the system.

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- .6 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 40 mils total DFT.
- .2 If sparktesting is desired use the CEILCOTE 680C (Conductive) Primer and sparktest at 100 volts per mil.

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Printed in U.S.A. 5/96
SCEIL40C/Release 1.51sc
#2102