



12/1/9

MASTER BUILDERS TECHNOLOGIES

1.41SC

CEILCOTE 68 LINING

For Concrete Substrates

NOTES TO THE SPECIFIER

- 1. This document has been prepared to assist specifiers in the preparation of specifications for **CEILCOTE 68 LINING**, 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 68 Lining 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 68 LINING (Concrete)

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

1.0 GENERAL

1.1 SCOPE

This specification covers the surface preparation and application of CEILCOTE 68 Lining 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 lining by written addendum or amendment.

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1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for CEILCOTE 68 LINING are listed in CEILCOTE 68 LINING TECHNICAL DATA SHEET.

- .1 Other reference documents include: CEILCOTE 68 LINING 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.

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2.2 MATERIALS

.1 Materials for CEILCOTE 68 Lining include:

- CEILCOTE 680 Primer and Hardener

OR

- CEILCOTE 680C Conductive Primer and Hardener

- CEILCOTE 68 Lining Base coat and Hardener

- CEILCOTE 68 Lining Topcoat and Hardener

- Appropriate Filler (S-1)

- Cloth Reinforcement (1 1/2 oz. mat reinforcing)

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 68 Lining 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.

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- .3 Concrete quality must be addressed before the CEILCOTE 68 Lining 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.

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 CEILCOTE 680 Primer, Epoxy Primer and hardener, or CEILCOTE 680C (Conductive) Primer and hardener if sparktesting is desired. It shall be applied by brush or roller to a film thickness of 3-5 mils.

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 68 Lining Base coat liquid, hardener and Type S-1 powder. It shall be trowel applied at a thickness of 1/16, (Target thickness of 60 mils).

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into liquid then add powder and continue mixing. Apply immediately, working time at 75°F (24°C) is 40 minutes.

- .3 Glass reinforcement shall be (1) layer of 1 1/2 oz. mat. Press glass onto basecoat, roll on catalyzed Basecoat resin and roll out entrapped air with a ribbed roller.

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- .4 Topcoat shall be a mixture of CEILCOTE 68 Lining Topcoat liquid and hardener. It shall be spray, brush or roller applied.

Ingredients are to be mixed thoroughly and in sequence. Stir hardener into CEILCOTE 68 Lining Topcoat then apply to surface. Topcoat shall have a target thickness of 6-8 mils.

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

3.5 TESTING

- .1 During application random wet film thickness reading shall be taken.
- .2 If CEILCOTE 680C (Conductive) Primer is utilized, sparktest at 100 volts per mil or maximum of 10,000 volts to insure a pinhole free lining.

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