

1.41CS

CEILCOTE® 387 HYBRICOTE SYSTEM
HYBRID NOVOLAC TECHNOLOGY
for
CONCRETE SUBSTRATES

NOTES TO THE SPECIFIER

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

1. This document has been prepared to assist specifiers in the preparation of specifications for the CEILCOTE® 387 HYBRICOTE system, 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 the CEILCOTE 387 HYBRICOTE system 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.

1.0 GENERAL

1.1 SCOPE

- A. This specification covers the surface preparation and application of the CEILCOTE 387 HYBRICOTE system as normally encountered in field installations.
- B. Deviations from this specification due to unforeseen or unknown field conditions, must be authorized by Master Builders.
- C. The contractor shall furnish all materials, tools, equipment, appliances, transportation, labor and supervision required during the preparation and installation process.

1.2 PRE-QUALIFICATION

- A. Applicator of material must have at least (5) years experience in the application of this product or similar systems. Previous experience must be verified by (3) references having similar applications.
- B. Contractor(s) seeking approval of substitute materials shall submit their request in writing to the specifier at least seven (7) days before closing of bids. Include samples; complete performance data; and certification from independent testing laboratory regarding conformity with specifications and a 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/lining by written addendum or amendment.

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1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for the CEILCOTE 387 HYBRICOTE system are listed in the CEILCOTE 387 HYBRICOTE Data Sheet.

- .1 Other reference documents include: CEILCOTE 387 HYBRICOTE system Installation Procedures and CEILCOTE Standard Specification for Concrete to Receive Monolithic Linings and Toppings - CPT-1.

1.4 PROJECT / SITE CONDITIONS

- .1 Minimum concrete surface temperature of 50 °F (10 °C) [maximum of 110 °F (43 °C)] for 24 hours before, during and after installation, or until cured.
- .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-MBT-9990.
- .2 Master Builders Technologies Ltd. 3637 Weston Road, Toronto, Ontario, Canada, M9L 1W1, 416-741-3830 or 800-387-5862.
- .3 Tecnoconcreto, S.A. de C.V., Blvd. M. Avila, Camacho #80, 3er Piso, 53390 Naucalpan, Mexico 011-525-557-5544.

2.2 MATERIALS

- .1 Materials for CEILCOTE 387 HYBRICOTE system include:
 - CEILCOTE 386 or 380 Primer and Hardener
 - CEILCOTE 387 HYBRICOTE 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 387 HYBRICOTE system require 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 Concrete must be dry for reliable adhesion.
- .3 Concrete quality must be addressed before the CEILCOTE 387 HYBRICOTE system can be applied. These conditions are air pockets, pinholes, tieholes, form burrs, honeycombs and cracks. Master Builders, Inc. 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 386 Primer and Hardener. CEILCOTE 380 Primer can be used as an optional primer. It shall be applied by brush or roller to a film thickness of 2 to 5 mils (51 to 127 micrometers).

To ensure a pinhole free lining, utilize CEILCOTE 380C 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 45 minutes.

- .2 Base coat shall be a mixture of CEILCOTE 387 HYBRICOTE Liquid and Hardener. It shall be applied at a thickness of 15 to 20 mils (380 to 510 micrometers) WFT.

Ingredients are to be mixed thoroughly and in sequence. Stir Hardener into Liquid. Apply immediately. Working time at 75 °F (24 °C) is 45 to 60 minutes.

- .3 Topcoat shall be a mixture of CEILCOTE 387 HYBRICOTE Liquid and Hardener. It shall be applied at a thickness of 15 to 20 mils (380 to 510 micrometers) WFT. (Same material as base coat.)

Ingredients are to be mixed thoroughly and in sequence. Stir Hardener into CEILCOTE 387 HYBRICOTE Liquid then apply immediately. Working time, at 75 °F (24 °C) is approximately 45 minutes.

- .4 The CEILCOTE 387 HYBRICOTE system may be applied by means of brushing, rolling or spraying. If spraying is employed use pressure pot or special catalyst pumping methods.
- .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 to 20 mils (380 to 510 micrometers) for both base coat and topcoat yielding a total target dry film thickness of 24 to 32 mils (610 to 810 micrometers).
- .2 If sparktesting is desired utilize the CEILCOTE 380C Conductive Primer.

Sparktest at a 5,000 volt maximum.

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