

CEILCOTE® 200MR FLAKELINE® SERIES*
Polyester / vinyl ester lining and flooring systems
for
STEEL 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 these polyester/vinyl ester lining and flooring systems.

1. This document has been prepared to assist specifiers in the preparation of specifications for CEILCOTE® 200MR FLAKELINE® 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 CEILCOTE 200MR FLAKELINE Series 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 200 MAT REINFORCED FLAKELINE SERIES types including 211, 222HT, 222G, 222GF, 232, 242, 251 and 252.

1.0 GENERAL

1.1 SCOPE

- A. This specification covers the surface preparation and application of CEILCOTE 200MR FLAKELINE Series 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 be approved by material manufacturer and 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 7 days before closing of bids. Include samples; complete performance data; and 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.

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1.3 APPLICABLE STANDARDS AND TEST METHODS

Physical properties and test methods for CEILCOTE 200MR FLAKELINE are listed in CEILCOTE 200MR FLAKELINE SERIES DATA SHEET.

- .1 Other reference documents include: CEILCOTE 200MR FLAKELINE SERIES INSTALLATION PROCEDURES and CEILCOTE Standard Specification for Concrete to Receive Monolithic Linings and Toppings - CPT-2 and CEILCOTE 370 Primer data sheet.

1.4 PROJECT/SITE CONDITIONS

- .1 For all application steps, the surface temperature, air temperature and material temperature should be between 50 degrees F (10 degrees C) and 110 degrees F (43 degrees 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-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 200MR FLAKELINE Series include:
 - CEILCOTE 370 Primer and Hardener
 - CEILCOTE 200MR Resin and Hardener
 - CEILCOTE 200 FLAKELINE Series Resin and Hardener
 - Appropriate Filler (S-1)
 - Mat 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.

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3.2 PREPARATION

- .1 Steel surfaces must be sandblasted to "White Metal" in accordance with SSPC SP-5-63 or NACE No. 1 using a clean , dry blasting media and a 3.0 mil anchor pattern. Blasted surfaces must be primed immediately after blasting or within an eight hour shift.

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 370 (Steel) Primer. It shall be applied by brush or roller to a wet film thickness or 1 to 4 mils. Ingredients are to be mixed thoroughly and applied to the prepared steel surface. Working time at 73°F (23°C) is approximately 45 minutes.
- .2 Base coat shall be a mixture of Mat Reinforced liquid (CEILCOTE 2500/25 Resin), Hardener and Type S-1 powder. It shall be trowel applied at a thickness of approximately 1/16 inch (40 to 80 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 73°F (23°C) is 40 minutes.
- .3 Glass reinforcement shall be (1) layer of 1-1/2 oz. mat. Press glass onto the base coat, roll on catalyzed resin and roll out entrapped air with a ribbed roller.
- .4 Topcoat shall be a mixture of CEILCOTE 200 FLAKELINE Liquid and Hardener. It shall be spray, brush or roller applied. Ingredients are to be mixed thoroughly and in sequence. Stir Hardener into CEILCOTE 200 FLAKELINE then apply to surface. Topcoat shall have a target thickness of 20 to 32 wet 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 After topcoat is hard, sparktest to ensure a pinhole free lining (at 100 volts per mil).
- .3 CEILCOTE 222GF FLAKELINE lining cannot be sparktested because of its conductive properties. At times CEILCOTE 232 FLAKELINE lining may be substituted for a base coat. Please consult Master Builders for material selection.

Master Builders, Inc.

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