

# MASTERCRON® F<sub>F</sub>

*Mineral aggregate dry shake surface hardener  
and flatness enhancer for flat and superflat floors*

## DESCRIPTION:

MASTERCRON F<sub>F</sub> is the first mineral aggregate dry shake surface hardener to be specifically developed for application on floors that are designed to conform to a specific flatness designation. (Refer to ACI #117, ASTM E-1155M-87 and CSA #A23.1 for specifics regarding F-Number System). Advanced product and process technology has provided the ability to integrate up to 1.0 lb/ft<sup>2</sup> (4.9 kg/m<sup>2</sup>) of MASTERCRON F<sub>F</sub> after screeding.

## RECOMMENDED FOR:

- High stack vehicular traffic routes
- Areas where a designated flatness is specified
- Warehouse and distribution centers
- Aisles and turnarounds
- AGV aisles
- Shipping/receiving areas

**NOTE:** Where greater wear dictates the need for a metallic aggregate dry shake surface hardener, consult your Master Builders representative for information regarding MASTERPLATE F<sub>F</sub>.

## FEATURES/BENEFITS:

- Ability to be broadcast or spread onto a newly placed slab for a flat or superflat floor (F<sub>F</sub> 25+)
- Flatness Enhancer – easier to implement flat and superflat construction operations due to its unique gradation
- Early Application Time – MASTERCRON F<sub>F</sub>'s state-of-the-art formulation allows it to be applied soon after screeding and/or bull floating once the desired concrete flatness has been achieved
- Improved Finishing – size graded aggregate and proprietary admixtures allow this product to be more easily finished
- Denser Surface – does not leave pinholes common on plain concrete floors. The increased surface density is greater than plain concrete to resist penetration by oil and grease which allows for easier and less expensive maintenance
- Increased Abrasion Resistance – unique formulation retains aggregate at the surface despite early application of shake. Abrasion resistance two times greater than plain concrete

## PACKAGING/ESTIMATING:

MASTERCRON F<sub>F</sub> surface hardener and flatness enhancer is packaged ready-to-apply in 55 lb (25 kg) moisture-resistant bags. No further measuring or mixing of the ingredients is required at the jobsite, thus movement of material and use of labor is more efficient.

The standard application rate of MASTERCRON F<sub>F</sub> surface hardener and flatness enhancer is 1.0 to 2.0 lb/ft<sup>2</sup> (4.9 to 9.8 kg/m<sup>2</sup>) of floor area. If more than 1.0 lb/ft<sup>2</sup> (4.9 kg/m<sup>2</sup>) total shake will be applied, apply in two applications. Consult your local Master Builders representative for a specific recommendation.

## APPLICATION:

Consult the MASTERCRON F<sub>F</sub> Installation Bulletin or the product bag for details on the application of MASTERCRON F<sub>F</sub> surface hardener.

Master Builders recommends that the user request the service of the local representative for a pre-job conference to review the concrete mix design and additives and to carefully plan each step of the installation.

## CURING:

At the completion of final troweling and when the surface will not be marred, apply an approved Master Builders membrane forming curing compound such as MASTERKURE® or MASTERKURE® 200W, in accordance with directions.

## LIMITATIONS:

- DO NOT USE MASTERCRON F<sub>F</sub>.
  - Where operating and service conditions dictate the use of metallic aggregate surface hardener for even greater wear resistance.
  - On areas exposed to acids, their salts or to other materials known to attack or deteriorate portland cement concrete.
  - Where resistance to struck sparks on the surface is desired.
- Do not apply over concrete containing aggregate contaminated with salt or salt water.
- Do not apply over concrete containing more than 3% air content when tested by ASTM C173 or ASTM C231 procedures. Higher entrained air contents are often required for concrete slabs exposed to water saturation and freeze/thaw cycles. The high air content makes proper application of dry shakes difficult or impractical, depending on the dimensions of the placement and the ambient conditions. Consult your Master Builders representative for more information.
- Use only admixtures in the concrete that are approved by Master Builders during the mix design review.
- Contact your Master Builders representative before applying MASTERCRON F<sub>F</sub> over concrete containing high range water reducers.
- Do not apply shake into standing bleed water or concrete that is bleeding excessively.
- Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by Master Builders.
- This product contains cement which may cause irritation. Avoid contact with eyes and prolonged contact with skin.

## RELATED BULLETINS:

Material Safety Data Sheet - MASTERCRON F<sub>F</sub>  
Installation Bulletin 8I49 - MASTERCRON F<sub>F</sub>  
Specification Bulletin 8S49 - MASTERCRON F<sub>F</sub>

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