

# MASTERPLATE® F<sub>F</sub>

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

## DESCRIPTION:

MASTERPLATE® F<sub>F</sub> is the first iron 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 the F-Numbering System).

MASTERPLATE F<sub>F</sub> has been developed to accommodate flatness enhancing dry shake installation procedures developed and promoted by the Edward W. Face<sup>SM</sup> Co.

Advanced technology has provided methods for the complete integration of up to 1.5 lb/ft<sup>2</sup> (7.4 kg/m<sup>2</sup>) of MASTERPLATE F<sub>F</sub> in a single application step after screeding.

## RECOMMENDED FOR:

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

## 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 – due to its unique gradation
- Finisher Friendly – size graded aggregate and proprietary admixtures for improved finishing
- One Pass Application – up to 1.5 lb/ft<sup>2</sup> (7.4 kg/m<sup>2</sup>) can be spread in one pass
- Early Application – MASTERPLATE 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
- Aggregate Retained at the Surface – Master Builders newly developed dry shake concept allows the aggregate to remain at the surface to offer maximum protection
- 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 – four times greater than mineral aggregate hardeners and toppings and eight times greater than plain concrete
- Impact Resistance – twice that of plain concrete
- Virtually non-dusting

## PACKAGING/ESTIMATING:

MASTERPLATE 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 MASTERPLATE F<sub>F</sub> surface hardener and flatness enhancer is 1.0 to 3.0 lb/ft<sup>2</sup> (4.9 to 14.6 kg/m<sup>2</sup>) of floor area. Do not exceed 1.5 lb/ft<sup>2</sup> (7.4 kg/m<sup>2</sup>) in a single pass. If more than 1.5 lbs/ft<sup>2</sup> will be applied, apply in two applications. Consult your local Master Builders representative for a specific recommendation to meet your individual needs.

## APPLICATION:

Consult the MASTERPLATE F<sub>F</sub> Installation Bulletin or the product bag for details on the application of MASTERPLATE 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 curing compound, such as MASTERKURE® 200W or MASTERKURE®, according to directions.

## LIMITATIONS:

- DO NOT USE in areas where floor surfaces will be exposed to acids, their salts or other materials which seriously and rapidly attack cement and/or iron.
- Do not apply over concrete containing added calcium chloride.
- 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.
- Do not apply MASTERPLATE F<sub>f</sub> 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 to skin. Avoid contact with eyes and prolonged contact with skin.

## RELATED BULLETINS:

Material Safety Data Sheet - MASTERPLATE F<sub>f</sub>  
Installation Bulletin 8I50 - MASTERPLATE F<sub>f</sub>  
Specification Bulletin 8S50 - MASTERPLATE F<sub>f</sub>

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