

MASTERCRON® LIGHT REFLECTIVE

Mineral aggregate, energy-saving, dry shake surface hardener

DESCRIPTION:

MASTERCRON LIGHT REFLECTIVE is a ready-to-use product which combines the benefits of a thick, mineral aggregate surface hardener with energy-saving light reflectivity. When evenly distributed and finished over freshly leveled and floated concrete, the floor surface will have increased wear resistance and light reflectivity at a moderate cost.

RECOMMENDED FOR:

- Indoor installations where requirements include approximately 50% light reflectivity as well as increased durability
- Manufacturing and warehouse floors for food, pharmaceuticals, computer parts, electronics and similar industries
- Refrigerated food storage areas; sewage and water treatment plants
- Shopping centers, motels, schools, theaters, airplane hangars and architectural sidewalks
- Floor areas that are frequently or continually wet

FEATURES/BENEFITS:

- Abrasion resistance two times greater than plain concrete
- Impact resistance twice that of plain concrete
- Greater surface density than plain concrete which increases resistance to penetration by oil, grease, hydraulic fluids (Skydrol®), ethylene glycol and many industrial chemicals
- Increased surface density also allows easier and less expensive maintenance because absorption of water and cleaning agents is reduced
- Greatly reduces surface wear, thereby lowering repair costs
- Specially designed, long-lasting light reflective properties – conserves energy, maximizes the designed lighting systems and provides up to a 250% increase in the light reflectivity of the floor surface over plain concrete
- Properly sized and graded aggregate is strictly controlled to provide consistent finishing characteristics and uniformity from lot to lot

*Skydrol is a registered trademark of Monsanto.

PACKAGING/ESTIMATING:

MASTERCRON LIGHT REFLECTIVE surface hardener is packaged 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 LIGHT REFLECTIVE surface hardener to obtain the proper color and light reflectivity is 1.0 to 2.0 lb/ft² (4.9 to 9.8 kg/m²) of floor area. If more than 1.0 lb/ft² (4.9 kg/m²) total shake will be applied, apply in two applications. Consult your local Master Builders representative for a specific recommendation.

APPLICATION:

Consult the MASTERCRON LIGHT REFLECTIVE bag for details on the application of MASTERCRON LIGHT REFLECTIVE 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 installation.

NOTE: Light reflective floors require extra care during construction and the newly constructed floor must be protected from staining and damage until the structure goes into service. Many factors can affect the final shade and appearance of a concrete floor. Master Builders cannot be responsible for matters beyond our control which would be the direct result of poor workmanship or inadequate protection.

CURING:

At the completion of troweling and when the surface will not be marred, apply an approved Master Builders membrane curing compounds according to directions.

LIMITATIONS:

- DO NOT USE:
 - when heavy-duty or steel-wheeled traffic is anticipated.¹
 - 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.¹
- 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 ambient conditions. Consult your local Master Builders representative for more information.
- The surface can be finished by floating or troweling, however, **never** burnish trowel a light reflective surface hardener.
- This product contains portland cement which will cause irritation. Avoid contact with eyes and prolonged contact with skin.

¹ LIGHT REFLECTIVE MASTERPLATE® 200 metallic aggregate surface hardener should be used when heavier or more abrasive traffic demands are anticipated or when resistance to struck sparks is needed.

RELATED BULLETINS:

Material Safety Data Sheet - MASTERCRON LIGHT RELECTIVE

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