

# LUMIPLATE™

*Non-oxidizing, metallic aggregate, energy saving dry shake surface hardener*

## DESCRIPTION:

LUMIPLATE is a ready-to-use product which combines the benefits of a thick, non-oxidizing, metallic aggregate surface hardener with energy-saving light reflectivity. This product is ideal for industrial floors requiring added abrasion and impact resistance in facilities needing improved lighting with fewer fixtures and/or less electrical energy requirements.

## RECOMMENDED FOR:

- Areas that can benefit from a light reflective, metallic aggregate surface, but because of constant or frequent wet conditions require that the metallic aggregate be non-oxidizing
- Indoor installations where requirements include both light reflectivity and durability at a reasonable installation cost
- Industrial floor surfaces subject to heavy or frequent traffic
- Areas where surface dusting will affect the purity of manufactured products or the performance of precision machinery
- Areas frequently subjected to deicing compounds

## FEATURES/BENEFITS:

- Increased abrasion resistance is three to four times greater than mineral aggregate hardeners and toppings
- Impact resistance is twice that of plain concrete
- Application rates from 2.0 to 3.0 lb/ft<sup>2</sup> (9.8 to 14.6 kg/m<sup>2</sup>)
- Provides 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 allows easier and less expensive maintenance because absorption of water and cleaning agents is reduced
- Non-oxidizing, metallic aggregate makes this product a virtually non-dusting surface hardener that may be finished to meet any requirement from smooth to slip resistant
- Specially designed, long-lasting, light reflective properties conserve energy, maximize the efficiency of existing or newly designed lighting systems, and increase the light reflectivity of the floor surface
- Properly sized and graded, non-oxidizing metallic aggregate is strictly controlled to provide consistent finishing characteristics and uniformity from lot to lot

## PACKAGING/ESTIMATING:

LUMIPLATE 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 LUMIPLATE surface hardener is 2.0 to 3.0 lb/ft<sup>2</sup> (9.8 to 14.6 kg/m<sup>2</sup>) of floor area. Consult your local Master Builders representative for a specific recommendation to meet your individual needs.

## APPLICATION:

Consult the LUMIPLATE bag for details on the application of LUMIPLATE 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.

**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 final trowelling, and when the surface will not be marred, apply an approved Master Builders membrane curing compound according to directions.

\*Skydrol is a registered trademark of Monsanto

## LIMITATIONS:

- Do not use in areas where floor surfaces will be exposed to acids, their salts or similar materials which seriously and rapidly attack cement.
- 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 at ambient conditions. Contact 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.
- Do not use water, burlap or polyethylene covering for curing. Use only curing compounds approved by Master Builders.
- Cleaning agents with a high alkaline content are recommended for continuous maintenance programs.
- This product contains portland cement which will cause irritation. Avoid contact with eyes and prolonged contact with skin.

## RELATED BULLETINS:

Material Safety Data Sheet - LUMIPLATE  
Specification Bulletin 8S8 - LUMIPLATE

### Master Builders, Inc.

#### United States

23700 Chagrin Boulevard  
Cleveland, Ohio 44122-5554  
(800) MBT-9990  
Fax (216) 831-6910

#### Canada

3637 Weston Road  
Toronto, Ontario M9L 1W1  
(800) 387-5862  
Fax (416) 741-7925

#### Mexico

Blvd. M. Avila Camacho 80, 3er Piso  
53390 Naucalpan, México  
011-525-557-5544  
Fax 011-525-395-7903