



## EMERCHROME® Floor Hardener

*A heavy-duty, ready-to-use, nonrusting, dry-shake, colored or uncolored hardener for freshly placed concrete flatwork.*

TECH-DATA BULLETIN TD-1120.12

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### 1. Product Description

EMERCHROME® Floor Hardener is a heavy-duty hardener that produces dense, hard surfaces on horizontal concrete in pedestrian and vehicular traffic areas. It is formulated for use on all types of flatwork subject to greater-than-normal use, from architectural hardscapes to commercial floors. Concrete hardened with EMERCHROME Floor Hardener requires minimal maintenance to remain attractive even in demanding environments. Time-tested and proven, it is available uncolored or in a wide range of permanent, uniform, high-spacity colors.

On exterior concrete, EMERCHROME Floor Hardener is abrasion and wear resistant, producing attractive, hard working concrete surfaces in areas subject to heavy vehicular traffic loads such as streets, parking structures, loading docks, shipping areas, and transportation facilities. Long-lasting and durable, EMERCHROME Floor Hardener provides superior resistance, over that of plain concrete, to the damage caused by freeze/thaw cycles and deicing salts, making it ideal for exterior use in colder climates.

In areas of high pedestrian traffic, such as amusement parks and shopping centers, EMERCHROME Floor Hardener can be used in vibrant or subtle colors to create designs and complement themes for walkways and plazas that are welcoming and easy to keep clean. Its abrasive qualities improve, and greater slip resistance is obtained, as the concrete wears and the angular aggregate is exposed.

EMERCHROME Floor Hardener produces impact-resistant interior floors and reduces damage from daily wear while providing improved traction in warehouses and many types of institutional, industrial, and commercial installations. Unlike metallic hardeners, EMERCHROME Floor Hardener will not oxidize, rust, or polish (become slippery) with use. Resisting dusting and spalling, its high-density surface is more resistant than plain concrete to penetration by water or other liquids. More cost-effective and maintenance-free than many floor coverings and coatings, its permanent colors produce an attractive appearance, allow color-coding for safety or convenience, and promote a more inviting work environment.

To provide color continuity throughout a project while allowing individual performance requirements to be met, EMERCHROME Floor Hardener is color matched to, and may be used in combination with, LITHOCHROME® Color Hardener, a dry-shake color hardener for areas where normal wear is expected and a heavy-duty hardener is not required. Information about coloring concrete flatwork in areas that are less heavily trafficked is available in the Scotfield Tech-Data Bulletin TD-1120 LITHOCHROME Color Hardener.

Concrete surfaces hardened with colored EMERCHROME Floor Hardener can be imprinted and antiqued, allowing the use of patterned architectural concrete in heavily trafficked areas. When used with LITHOTEX® Pavecrafters® imprinting tools, the rich finishing paste of EMERCHROME Floor Hardener allows the production of sharp, finely detailed patterns with superior wear resistance. When used in combination with LITHOCHROME® Antiquing Release, long-lasting surfaces with a variegated, timeworn appearance can be created. Information about imprinting and antiquing concrete is available in Scotfield's Tech-Data Bulletins TD-2730/30 LITHOTEX Pavecrafters and TD-1410 LITHOCHROME Antiquing Release.

### 2. Coverage

Coverage requirements vary according to intended use and color. EMERCHROME Floor Hardener should never be applied at a coverage rate of less than 60 pounds (1 bag) per 100 square feet (3.0 kg/m<sup>2</sup>), and for commercial applications or when a lightly sandblasted finish is required, a minimum of 90 pounds (1.5 bags) per 100 square feet (4.5 kg/m<sup>2</sup>) is recommended. For heavy-duty applications, up to 120 pounds (2 bags) per 100 square feet (6.0 kg/m<sup>2</sup>) may be used.

Regardless of use, light colors and whites require minimum coverage rates of 90–120 pounds (1.5–2.0 bags) per 100 square feet (4.5–6.0 kg/m<sup>2</sup>). Scotfield should be consulted for the minimum coverage rates of specific custom colors.

Because of the difference in their relative densities, the above coverage rates result in approximately 75% greater thicknesses when using EMERCHROME Floor Hardener than if a metallic hardener were used at the same coverage rate.

EMERCHROME Floor Hardener may be plastered onto freshly placed vertical surfaces at the rate of approximately 50 pounds per 100 square feet (4.0 kg/m<sup>2</sup>).

### 3. Limitations

Application must be at the coverage rates given in section 2. Coverage. If insufficient material is applied, the slip and abrasion resistance of the cured surface will be reduced, and the concrete substrate may be revealed during texturing. For maximum slip resistance, the aggregates in EMERCHROME Floor Hardener should be exposed by a light sandblast or acid wash.

EMERCHROME Floor Hardener should not be installed without specific prior testing in areas subject to harsh chemicals, extreme abrasion, or unusually high impact.

Though EMERCHROME Floor Hardener may be mixed with water and plastered on the vertical faces of freshly placed concrete incidental to color-hardened flatwork, it is not intended for extensive use on vertical concrete surfaces.

All fine and coarse aggregates in the concrete substrate must be nonreactive. Fluosilicate-type chemical hardeners should not be used, since they leave a nonuniform, whitish residue.

### 4. Composition and Attributes

EMERCHROME Floor Hardener is a streak-free, powdered, cementitious material containing special aggregates and produced by a proprietary manufacturing and intergrinding process. Formulated as a high-spacity hardening material for the top surface of freshly placed concrete substrates, it is limeproof and has maximum resistance to the effects of sunlight (UV). For optimum performance, EMERCHROME Floor Hardener contains aggregates selected for hardness, angularity, and purity that are carefully graded through a wide particle-size range to produce dense, wear-resistant concrete surfaces.

# Em 1120architectural Concrete Engineering

**J Dewey**



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**Inland Architect Engineer and Builder** ,1905      **Journal of the Western Society of Engineers** Western Society of Engineers (Chicago, Ill.),1921      *Transactions - The Society of Naval Architects and Marine Engineers* Society of Naval Architects and Marine Engineers (U.S.),1920 List of members in vols 1 24 38 54 57      Engineering Index ,1929  
**Engineering News-record** ,1919      **Law for Engineers and Architects** Laurence Packer Simpson,Essel Ray Dillavou,1929      **Building and Engineering News** ,1929      **Engineering and Contracting** ,1924      The Civil engineer & [and] architect's journal ,1846      *Engineering and Cement World* ,1918      **Infrastructure Management, Assessment and Rehabilitation** Sherif Yehia,Mahmoud Reda Taha,Akmal Abdelfatah,2021-11-30 This volume brings together state of the art research on the development of infrastructure management assessment and rehabilitation techniques It sheds light on pioneering work on innovative 3D printed concrete novel methods for assessment of bridge decks and advanced computer vision based maintenance of civil infrastructure The book is essential reading for infrastructure owners engineers and contractors allowing them to gain insights into groundbreaking research that is paving the way toward sustainable and resilient infrastructure      **Contract Record and Engineering Review** ,1915      **Handbook for Concrete and Cement** United States. Army. Corps of Engineers,1949      The American Architect ,1919      **Surveyor and Municipal and County Engineer** ,1905

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