

Technical Data

DAY-CHEM SURE HARD™ (J-17)

Combination hardening, dustproofing & sealing

Extended Warranty Available

PRODUCT DESCRIPTION:

Day-Chem Sure Hard is a colorless, odorless solution of specialized reactive chemicals which penetrate concrete and masonry surfaces to seal, densify and harden the material. Day-Chem Sure Hard is a water-based product and as a result is V.O.C. compliant and environmentally safe to use.

Day-Chem Sure Hard penetrates the concrete, masonry or stone surfaces and undergoes a chemical reaction that turns the concrete or masonry substrate into a hardened, densified mass. Surfaces treated with Day-Chem Sure Hard are not only more abrasion resistant, but are more resistant to chemicals and water than untreated concrete.

Day-Chem Sure Hard because it penetrates the surface and chemically bonds, will last for an extended period of time. Dayton Superior will supply long term warranties for Day-Chem Sure Hard.

Day-Chem Sure Hard's combination of water based safety, ease of use and long-term performance makes it an attractive alternative to currently available sealer-type products. Day-Chem Sure Hard represents an advanced technology in concrete and masonry treatments.

PURPOSE:

Day-Chem Sure Hard is a premium product for hardening, dustproofing and sealing of concrete, masonry, mortar, or stucco. It is excellent for concrete floor applications where long-term resistance to dusting, black rubber tire marks and water is important.

Day-Chem Sure Hard, because it penetrates the surface and becomes an integral part of the substrate, does an excellent job of sealing and hardening for a long time. As a result, it will help prevent efflorescence and the leaching of lime.

Sure Hard is suitable for both interior and exterior applications.

Ideal applications include, but are not limited to, industrial plants, warehouses, schools, factories, hospitals, malls, food processing plants, textile mills, freezers, water and sewage treatment plants, parking decks, airports and stadiums.

ADVANTAGES:

- Long Term Warranty Available
- Seals, hardens and dustproofs
- Resists black rubber tire marks on floors
- Lasts longer than other floor coatings
- Will not scratch or peel
- Environmentally safe
- Water Based, V O C compliant
- No odor, no fumes
- USDA approved for incidental food contact
- Develops a more polished look with age

MEETS SPECIFICATIONS:

Active Ingredients:	100% of total solids
Specific Gravity:	1.2
Film:	0
Flash Point:	None
V.O.C. Content:	0 gm/liter
Skid Resistance:	Good
Depth of Penetration:	5mm into concrete

Water Absorption: ASTM C-642
J-17-3.4% in 24 hours
Leading Competitor- 4.25% in 24 hours

Compressive Strength: ASTM C-140
Concrete treated with J-17 - 3,910
psi (27MPa)-average
Untreated concrete - 3,461 psi (23.9 MPa) -
average

Water Vapor Transmission Rate - 217 grams/sq. ft.-
24 hours

APPLICATION INSTRUCTIONS:

Apply only when temperatures are above 40°F (4°C). Avoid contact with glass, aluminum and polished metal surfaces. If contact occurs, wash immediately with water.

New Concrete: After finishing is complete and surface water has disappeared, cure with Day-Chem Sil-Cure (J-13), water or properly used sheet materials. If water or sheet materials are used for curing, use for a minimum of 3 days. If J-13 is used for curing, apply at 400- 500 ft²/ gal. (9.8-12.3 m²/L). Then apply Day-Chem Sure Hard according to the "Old Concrete" instructions after a minimum of 7 days.

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VOC
Compliant

Old Concrete/Masonry: All surfaces to be treated must be clean and sound. Remove all membrane forming curing compounds, sealers, oil, grease, dirt and other contaminants. For best results, remove any concrete laitance and patch or fix all cracks and damaged areas. Apply Day-Chem Sure Hard to point of rejection (by spray, roller, brush or pouring), working it in using a soft bristle broom or mechanical scrubber. Work in this manner until the product begins to gel, usually in 15-30 minutes, then rewet with water and work for another 5-10 minutes. Thoroughly rinse and then squeegee or brush off excess material until dry. On porous or rough surfaces, a second application may be required.

If a second coat is required, immediately apply it in a similar manner as the first coat. Do not allow the surfaces treated to dry between applications. The use of a mechanical scrubber will increase the effectiveness of the application. The treated surface will develop a "polished" appearance over time.

Tilt-Up Construction: Refer to Dayton Superior Technical Bulletin # 9a, or contact the Technical Services Department for use of the J-17 with Dayton Superior Bondbreakers.

APPROXIMATE COVERAGE:

First Coat.....200 sq. ft. per gal. (4.9m²/L)
Second Coat..(if necessary) - 300 - 400 sq. ft. per gal.
(7.4 - 9.8 m²/L)

Texture and absorption of surface will determine final coverage rates. Porous concrete surfaces may require additional material.

Warranty, Warranty Disclaimer and Exclusive Remedy - Dayton Superior Chemical Division warrants, for 12 months from the date of manufacture or for the duration of the published product shelf life, whichever is less, that at the time of shipment by ("the Company"), the product is free of manufacturing defects and conforms to ("the Company's") published specifications in force on the date of acceptance by ("the Company") of the order. ("the Company") shall only be liable under this warranty if the material has been applied, used, and stored in accordance with ("the Company") instructions in this technical data sheet.

The purchaser must examine the product when received and promptly notify ("the Company") in writing of any non-conformity before the product is used, or no later than 30 days after such non-conformity is first discovered. If ("the Company"), in its sole discretion, determines that the product breached the above warranty, it will, in its sole discretion, replace the non-conforming product, refund the purchase price or issue a credit in the amount of the purchase price. This is the sole and exclusive remedy for breach of this warranty.

Only a ("Company") officer is authorized to modify this warranty. The sales information on the ("the Company's") website and received by the customer during the sales process does not supersede this warranty and the specifications of the product in force on the date of sale. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM, TRADE OR OTHERWISE.

Limitation of Liability - Dayton Superior Chemical Division shall not be liable in contract or in tort (including, without limitation, negligence, strict liability or otherwise) for loss of sales, revenues or profits; cost of capital or funds; business interruption or cost of downtime, loss of use, damage to or loss of use of other property (real or personal); failure to realize expected savings; frustration of economic or business expectations; claims by third parties (other than for bodily injury), or economic losses of any kind; or for any special, incidental, indirect, consequential, punitive or exemplary damages arising in any way out of the performance of, or failure to perform, this Agreement, even if ("the Company") could foresee or has been advised of the possibility of such damages. The Parties expressly agree that these limitations on damages are allocations of risk constituting, in part, the consideration for this agreement, and also that such limitations shall survive the determination of any court of competent jurisdiction that any remedy provided in these terms or available at law fails of its essential purpose.

DRYING TIME:

Approximately 2-4 hrs. at 70° F (21° C) with good air circulation.

PACKAGING:

1 gal. containers (3.8L), 5 gal. pails (18.9L) and 55 gal. drums (208L)

CLEAN UP:

Immediate and thorough flushing with clean water.

LIMITATIONS:

Ponded or puddled material must be squeegeed or brushed, otherwise white residue will appear on the surface. If white residue starts to appear on the surface during drying, immediately remove with hot water and scrubbing. Floors are slippery during application. If Day-Chem Sure Hard is accidentally applied to glass, aluminum or polished metal, immediately rinse with water to prevent etching. Porous or low quality concrete substrates may not develop a "polished" appearance over time. Keep containers of Day-Chem Sure Hard from freezing. For colored concrete, apply after concrete is 60 days old. Shelf life is 1 year.

WARNING:

Causes irritation of skin and eyes. Refer to Material Safety Data Sheets.

MAINTENANCE:

Mop or use mechanical scrubbing with detergents or water. Mopping or scrubbing the floor will prolong the life of the floor, as well as increase the "polished" look. Wipe up chemical spills as soon as possible.

TECHNICAL SERVICES:

Call the technical staff for assistance at:

1-866-329-8724

1-913-233-1750

or

Fax: 1-913-279-4806

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