

TECHNICAL DATA SHEET

DESCRIPTION

Sure Hard Densifier J17 is a colorless, odorless solution of specialized reactive chemicals that penetrate concrete surfaces to seal, densify and harden the material. Sure Hard Densifier J17 is a water based product and as a result is V.O.C. compliant in every area of the country and environmentally safe to use. Sure Hard Densifier J17 penetrates into the concrete, where it reacts with free calcium to form insoluble calcium silica hydrate, which makes concrete more water, stain, and abrasion resistant for easier maintenance and longer life.

USE

Sure Hard Densifier J17 is a premium product for hardening, dustproofing and sealing of concrete. It is excellent for concrete floor applications where long term resistance to dusting, black rubber tire marks and water is important. Sure Hard Densifier J17 leaves no surface film to wear off or abrade because it penetrates the surface and becomes an integral part of the substrate. 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.

FEATURES

- Seals, hardens and dustproofs
- Resists black rubber tire marks on floors
- Lasts longer than topical floor coatings
- Will not scratch or peel
- Environmentally safe
- Water Based, V.O.C. compliant
- No odor, no fumes
- Meets USDA requirements for Incidental Food Contact
- Develops a more polished look with age

PROPERTIES

Specific Gravity: 1.2
 Flash Point: None
 Depth of Penetration: As much as 5mm into concrete
 Water Absorption (ASTM C-642): After 48 hour immersion, 19.7% improvement over untreated control specimens
 Compressive Strength (ASTM C-109):
 Concrete treated with J-17: 7560 psi (52.1 MPa)
 untreated concrete: 6530 psi (45 MPa) average
 Water Vapor Transmission Rate ASTM F 1869:
 5.00 lbs/ 1,000 sqft/ 24 hours, 31% Improvement over untreated control specimens
 Taber Abrasion (ASTM C501):
 16.5% improvement over untreated control specimens
 Dynamic coefficient of friction (ANSI A137.1 Slip Resistance):
 Concrete substrate: 0.52
 After J-17 densifier was applied: 0.54.
 Meets ANSI A137.1 (DCOF) of 0.42 or greater

Drying time:

Approximately 2-4 hrs. at 70°F (21°C). Allow treated area to dry before opening to traffic. Dry time is temperature, humidity and wind dependent.

VOC

0 gm/liter VOC. Compliant with all Canadian and U.S. VOC regulations including Federal EPA, OTC, LADCO, SCAQMD & CARB.

Estimating Guide

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

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

Packaging

PRODUCT CODE	PACKAGE	SIZE	
		Gallons	Liters
68086	Jug	1	3.79
68084	Pail	5	18.93
68082	Drum	55	208.20

STORAGE

Keep from freezing. Shelf life is 12 months from date of manufacture in original unopened containers.

APPLICATION

Surface Preparation:

All surfaces to be treated must be clean, sound and absorptive. Remove all membrane forming curing compounds, sealers, oil, grease, dirt and other contaminants. Remove any concrete laitance and patch or fix all cracks and damaged areas. New concrete should be properly cured a minimum of 7 days in accord with ACI 302 by one of the following methods: water, plastic sheeting, reinforced paper or membrane-forming cure. If a membrane-forming cure is used it will require removal prior to the application of the J17. It is recommended to use the Citrus Cleaner J48 for the removal of those curing compounds or curing & sealing membranes.

Mixing:

Mix thoroughly prior to each use.

Placement:

Apply Sure Hard Densifier J17 to point of rejection (by spray, roller, brush or pouring), then scrub the product using a soft bristle broom or mechanical scrubber. Work in this manner until the product begins to thicken, usually in 15-30 minutes, depending on the surface and ambient temperatures, then rewet with water and work for another 5-10 minutes.

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Do not allow the product to dry, apply additional product if needed to keep wet while working. 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 treated surfaces 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.

CLEAN UP

Immediate and thorough flushing with clean water while material is still wet. Dried material may require sanding or grinding for removal.

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.

LIMITATIONS

FOR PROFESSIONAL USE ONLY

Ponded or puddled material must be removed by squeegee or brush, 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. Porous, low quality concrete substrates or floors with a rough surface may not develop a “polished” appearance over time. Apply only when temperatures are above 40°F (4°C). Avoid contact with glass, aluminum and polished metal surfaces. Protect from contact. If contact occurs, wash immediately with water to prevent etching. For colored concrete, contact Dayton Superior. A test installation is recommended.

PRECAUTIONS

READ SDS PRIOR TO USING PRODUCT

- Use with adequate ventilation
- Wear protective clothing, gloves and eye protection (goggles, safety glasses and/or face shield)
- Keep out of the reach of children
- Do not take internally
- In case of ingestion, seek medical help immediately
- May cause skin irritation upon contact, especially prolonged or repeated. If skin contact occurs, wash immediately with soap and water and seek medical help as needed.
- If eye contact occurs, flush immediately with clean water and seek medical help as needed
- Dispose of waste material in accordance with federal, state and local requirements

MANUFACTURER

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WARRANTY

Dayton Superior Corporation (“Dayton”) 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 Dayton, the product is free of manufacturing defects and conforms to Dayton’s product properties in force on the date of acceptance by Dayton of the order. Dayton shall only be liable under this warranty if the product has been applied, used, and stored in accordance with Dayton’s instructions, especially surface preparation and installation, in force on the date of acceptance by Dayton of the order. The purchaser must examine the product when received and promptly notify Dayton in writing of any non-conformity before the product is used and no later than 30 days after such non-conformity is first discovered. If Dayton, 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 Dayton officer is authorized to modify this warranty. The information in this data sheet supersedes all other sales information received by the customer during the sales process. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTIES, 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.

Dayton 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, its obligations under any contract for sale of product, even if Dayton 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 contract, 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.