

GUIDE TO LIQUID DENSIFIERS / DIAMOND POLISHING

In the Dayton Superior line of products, as well as most other full line manufacturers, there are three variations of floor densifiers: Sodium silicates (J-13), Fluosilicates (J-15) and the Silicate/Siliconate (J-17). None of these products are membrane forming and therefore cannot meet ASTM C-309 as a curing membrane. Even if a membrane forming compound was not a prerequisite to meet C-309, the moisture retention of any of these products is much less than a membrane forming curing compound meeting ASTM C-309.

Silicates react with the free lime (calcium hydroxide) in the concrete to produce the strength producing gel called calcium silicate hydrate (CSH). The development of free lime is a by-product of hydration (the chemical reaction between cement and water), therefore the more mature the concrete, the greater the amount of free lime. The more free lime available, the greater the reaction of the liquid hardener. With more of the free lime converted to CSH the surface becomes stronger and more dense and therefore will provide a higher level of performance.

DAY-CHEM SIL-CURE (J-13)

- Cost-effective
- Will not discolor
- Also available with a fugitive dye
- Non-membrane forming
- Treated surface will accept most any floor finish
- USDA approved

DAY-CHEM HARDENER (J-15)

- Is a corrosive material
- On new concrete surfaces, wait a minimum of 14 days [preferably 28 days], before applying
- More effective as a hardener than the J-13
- 2-coat application
- 5-year Dustproofing Warranty available*

DAY-CHEM SURE HARD (J-17)

- Colorless, odorless
- Contains siliconates to impart water repellency
- USDA approved
- Long term Dustproofing Warranty available*
- Quick turn around, as the floor can be used as soon as it is dry
- On new concrete surfaces, wait a minimum of 7 days before applying
- Will not accept most any floor finish i.e. mastic or epoxy
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*Technical Services must be contacted prior to any application that will require a warranty.

Refer to www.daytonsuperior.com for latest Technical Data Sheet and MSDS
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