TECHNICAL DATA SHEET

In the Dayton Superior line of products there are three variations of floor densifiers: Sodium silicates (J13) ,Silicate/Siliconate (J17) and Lithium (Pentra Hard). All three variations of floor densifiers 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.

Lithium-based densifiers penetrate and react similar to the Silicates and silicate/siliconates and they do not contribute to alkali-silica reaction as do the silicates.

DENSIFIER CONCENTRATE J12
- Concentrated solution with a fugitive dye
- Will not discolor
- Non-membrane forming
- Treated surface will accept most any floor finish

DENSIFIER J13
- Cost-effective
- Will not discolor
- Non-membrane forming
- Treated surface will accept most any floor finish
- USDA approved

SURE HARD DENSIFIER™ J17
- Colorless, odorless
- Contains siliconates to impart water repellency
- USDA approved
- 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

PENTRA-HARD DENSIFIER
- Easy application, no rinsing required
- Penetrates, no film to lift and peel off
- Does not contribute to ASR
- VOC compliant, can contribute to LEED points
- Reists stains and dusting, makes concrete easier to maintain

PENTRA-HARD GUARD
- Delivers rapid shine development with increased abrasion and stain resistance and gloss retention
- Keeps dirt and contaminates from penetrating, making Cleaning faster, more effective and more economical
- No build-up_periodic re-application is simple and requires no stripping
- Prolongs shine of polished concrete surfaces

Note: 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.