Flooring Systems

Choosing the floor to meet your needs

When choosing a floor it is important to consider the service conditions, maintenance criteria, safety requirements, installation time as well as the aesthetics. Floor coatings and floor surfacing systems are long-term investments that can reduce maintenance costs, energy costs and down-time with the right floor system selection.

High-Solids, Thin-Film Performance Epoxy Flooring

Traditionally this floor is used in warehouses, manufacturing plants and processing facilities where minimal damage is expected. Pedestrian traffic, forklifts and motorized traffic are easily handled by this type of floor. This floor is not recommended where metal objects will be pushed over the surface such as pallets with protruding nails or metal bottomed chairs due to the scratching of the surface. Such a floor has an industrial appearance due to its monochromatic color. Costs in terms of material and application are low, while the life expectancy of such a flooring system depends on the service conditions and ability to reapply a topcoat when aesthetics require a freshened appearance.

100% Solids, Semi-Self Leveling Performance Epoxy Floor

The 100% solids, semi-self leveling floor is high gloss and very reflective reducing the need for increased lighting. This is a durable floor that is ideal for labs, shops and institutions. This type of floor forms the basis for a color quartz floor, but is not as durable due to the absence of the quartz aggregate and also has the propensity to be slippery when wet due to the very smooth finish. The solid color is monochromatic with an institutional appearance.

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Commercial Color Quartz Flooring System

Color quartz performance floors are very durable and aesthetically appealing due to the multiple colors of quartz that are used to make up the aggregate fill of a floor. This flooring system reflects light and provides slip resistance. This type of floor provides a long-lasting robust surface that can be tailored to meet the needs of a business or institution with a branding logo or seal embedded in the clear resin system created with the color quartz aggregate. The floor consists of a prime coat and a minimum of two aggregate filled broadcast base coats followed by finish coats to seal the quartz aggregate into the floor. While this type of floor is both labor intensive and high in material costs, it is highly resistant to staining.

Anti-Microbial Color Quartz Flooring System

Color quartz performance flooring systems are also available in anti-microbial systems that do not host for mold, mildew and bacteria. Steri-Flor systems are specifically designed to meet the needs of bio-medical, pharmaceutical companies and cosmetics manufacturers. This easily cleaned, slip-resistant flooring system provides the facility owner with a long-term wear solution. As with the commercial color quartz system, the Steri-Flor system can be tailored to meet the needs of the facility owner in terms of color selection, appearance and logo branding. The floor consists of a prime coat and a minimum of two aggregate filled broadcast base coats followed by finish coats to seal the quartz aggregate into the floor. This type of floor has improved chemical resistance due to the Steri-Flor resin system.

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Food Processing Floors

Food processing operations require slip-resistant floors with cleanability, low odor with fast return to service as well as chemical resistance to acids and sugars. Epoxies filled with aluminum oxide are common to food processing operations, but epoxies dry slowly and require relatively dry concrete for proper adhesion. The aluminum oxide provides epoxy flooring with slip-resistance but it also reduces cleanability. Food processing operations using steam, hot water or hot oil will damage and delaminate epoxy floor systems. Constant exposure of the epoxy to wet processes eventually weakens the epoxy concrete bond which will also result in damage.

We have a better solution for food processors…

Dudick, Inc. supplies Shock-Crete, an anti-microbial, slip-resistant, cleanable, low odor cementacious urethane to food processors from canners to bakeries to commercial kitchens. Twelve hours after Shock-Crete is applied the food operations can be back in full service with minimal impact on the facility or loss of revenue due to an extended shut-down.

Shock-Crete is available in a self-leveling material (Shock-Crete SL) as well as a trowel applied surfacer (Shock-Crete HD). Shock-Crete SL is used on food processing floors that are in relatively good shape and not subjected to steam cleaning or hot oil and hot water spills. Shock-Crete HD is used on floors that require resurfacing or are subjected to steam cleaning, hot oil and hot water spills. Shock-Crete's anti-microbial component does not host bacteria, mildew or mold. Shock-Crete is easily cleaned with one California fruit processor reporting a 17% reduction in water usage as well as a reduction in labor hours spent on facility cleaning.

Shock-Crete's slip resistance and seamless application have earned high marks from facility operators citing dramatic declines in slips and falls. Back injuries to fork lift operators have also substantially declined due to Shock-Crete's smooth, easily transited surface.

Shock-Crete provides a durable, easily cleaned, long-lasting flooring solution for food processors. Shock-Crete is a solution that will offer years of outstanding performance with proven process savings through its cleanability, slip resistance and anti-microbial properties.

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