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**EPOXY & FIBERGLASS FLOORING, SEAMLESS FIBERGLASS WALL SYSTEMS, SEALERS,  
HIGH PERFORMANCE COATING SYSTEMS, AND INDUSTRIAL CLEANERS**

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## **SYSTEM BULLETIN**

### **SANDROCK BROADCAST QUARTZ SEAMLESS EPOXY FLOORING**

**DESCRIPTION:** "SANDROCK" flooring is a multi layer laminate of epoxy and sized color aggregates finished in a variety of thickness and top textures for different intended end uses. The types and styles are dependent on the construction of the base layers for thickness and the construct of the top layers for surface texture. For more specific information please refer to surface installation and specification guidelines. SANDROCK VE and PE are sandrock style floor surfaces made from (respectively) vinyl ester or polyester resins. The choice of resin will be dependent on the actual chemical resistance that the surface needs to withstand.

#### **PREPARATION**

Proper preparation is essential for this surface to adhere properly. A calcium chloride moisture vapor test is essential prior the installation of this system. A reading of 4.1 or less is required before installation is to start ( see technical write up on Moisture Vapor Transmission for more information). Once the concrete is dry enough to continue the surface needs to be thoroughly cleaned and etched with a mild HCl solution ( our XA-201 DETERGENT ACID diluted 1-1 With water is recommended). If the surface has a curing compound on it this needs to be removed chemically or mechanically. If it is soiled clean with CD-203 OIL AND GREASE DISSOLVER and follow with the recommended acid etch. Shot blasting is also acceptable though care needs to be taken not to dig "rows" into the concrete as these will transmit through and show in the top surface e if not repaired ahead of time. Once the concrete is clean and dry apply #1013 EPOXY PRIMER at a rate of 300-350sq ft/gal. This step is essential to both get a solid bond and strengthen the tip surface of the concrete and is especially important if the surface is shot blasted as this weakens the concrete. Fill all joints, holes and face cracks with #4100 LVS epoxy either as is or thickened with sand and/or cabosil as the depth of the joint indicates. Once this is hard, sand the patch smooth to the concrete adjacent to it. The SANDROCK surface of youi hoice may now be installed.

**BASE CONSTRUCTION-COLOR QUARTZ:** The system base provides strength, impact resistance, and ultimate surface thickness. In all cases proper surface preparation; priming with #1013 EPOXY PRIMER is essential.

**SANDROCK-I:** consists of one layer of 100% SOLIDS CLEAR #4100 LVS EPOXY is applied with a v notch trowel or roller at an application rate of 125sqft/gal, back rolled smooth and then into which premixed colored quartz is broadcast until the top epoxy surface is overfilled with quartz. This is allowed to harden, the excess quartz is removed and a second layer of 100% SOLIDS #4100 LVS CLEAR EPOXY is applied at 125 sqft/gal and a second quartz broadcast is applied. Once this hardens and the quartz is removed the specified top surface may be applied. Final surface thickness is 1/8".

**SANDROCK-II:** Consists of a 1/8" thick TROWELRITE EPOXY AGGREGATE surface troweled smoothed (and/or pitched if required). Over this is broadcast the colored quartz and then the topping system is applied. Finished thickness of the surface is 3/16-1/4".

**SANDROCK-III:** Consists of a 1/4" thick Trowelrite surface over which a quartz broadcast is applied and topped. The final surface thickness is 5/16".

**TOP SURFACE CONSTRUCTION:** Either 100% SOLIDS #4100 LVS EPOXY, CLEAR ALIPHATIC URETHANE or a combination of these may be used to provide the top surface. Surfaces may be constructed to be slip resistant or smooth depending on the choice of top surface constructions.

**ROUGH:** constructed with either one top coat of 100% #4100 LVS SOLIDS EPOXY applied at 125-135 sqft/gal or two coats of #2200, 2300 or #2411 ALIPHATIC URETHANE applied at 250sqft/gal each. Ideal for always-wet areas e.g. shower rooms.

**STANDARD COMMERCIAL:** constructed with either two top coats or 100% SOLIDS #4100 LVS EPOXY applied at 150-250 sqft/gal or one top coat of epoxy applied at 125 sqft/gal and two coats of #2200, #2300 or #2400 ALIPHATIC URETHANE. Ideal for bathrooms, kitchens, locker rooms, etc.

**SMOOTH:** constructed with two coats of 100% SOLIDS #4100 LVS EPOXY each applied at 125-150 sqft/gal followed by one coat of #2200 or #2400 ALIPHATIC URETHANE. Ideal where easier cleaning is important.

**USES:** The SANDROCK SYSTEM provides the customer with considerable latitude, looks, durability and slip resistance in specifying a topping. A review of the types of service for which different floor toppings would be useful is found in the "industrial floor toppings" table in the booklet. This should be reviewed before thickness is specified. Top profiles are generally specified based on how wet the area will be. In general:

**MATERIAL CHOICES:** The materials chosen for the construction will greatly effect the cost of the surface and should be specified with the areas use in mind. Briefly #2200 URETHANE is used as a topcoat for outstanding shine, solvent and stain resistance, and UV stability. #2300 is a water based urethane giving the possibility of an odorless system installation with outstanding wear. This material gives a slightly satinized looking finish and easy recoatability. #2411 is similar to the #2200 though it offers easier recoatability, The #2400 is the toughest top coat available, #4100LVS EPOXY is high performance chemical resistant epoxy well suited for construction in both commercial and industrial locations, and for topcoat construction. #4100LVS is nearly odorless and has excellent stain and chemical resistance, good wear resistance, and good light resistance. It is an ideal odorless topcoat choice. #5100 offers exceptional acid and chemical resistance and is often chosen for laboratory floor topping systems. Construction of the SANDROCK SYSTEMS with #4100LVS is an USDA approved surface. For more specific information consult the product bulletins. For the SANDROCK VE and PE ( VINYL ESTER OR POLYESTER CONSTRUCTION) consult your dealer for recommendations for whatever chemical resistance is required.

## **SPECIFICATIONS**

<b>Compressive strength</b>	<b>19200 psi</b>
<b>Tensile strength</b>	<b>10700 psi</b>
<b>Flexural strength</b>	<b>10700 psi</b>
<b>Hardness shore D</b>	<b>80-83</b>
<b>Adhesion</b>	<b>&gt;400 psi concrete breaks</b>
<b>Adhesion strength w/1013</b>	<b>&gt;1000 psi</b>
<b>Water absorption epoxy</b>	<b>0.13</b>
<b>Water absorption 2400 urethane</b>	<b>&lt;0.01</b>
<b>Abrasion resistance urethane</b>	<b>0.018 g</b>
<b>Abrasion resistance qtz</b>	<b>&lt;0.004</b>
<b>Slip resistance</b>	<b>smooth to rough</b>
<b>Mvt max</b>	<b>4.5 lb water vapor/1000 sqft/24 hours</b>
<b>Chemical resistance- see tds</b>	

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