

SeamTek® Type 8 Quartz N2 Flooring

1. Product Description

Basic use

SeamTek® Type 8 quartz N2 flooring has been developed for use in high temperature environments that are also physically and chemically and physically abusive. It is a LEED compliant system incorporating a two component no-VOC, no-HAP resin with a thermal glass transition point in excess of 500 degrees F. It is designed to be 1/8" thick resembles other quartz flooring in appearance. It is ideal for use in areas with hot water such as Cage Wash areas, cooking lines and soup lines in commercial kitchens or around autoclaves. Areas where steam cleaning is expected are ideal applications where chemical resistance is also a problem..

SeamTek Type 8 flooring has been specifically designed to cure with no air release problems that can cause subsequent cleaning problems. The matrix resin component (LSP 4101) is designed for thermal stability at temperatures well above 500 degrees F.

The UV seal coat resin assures outstanding chemical resistance when compared to other Chemical Resistant products. SeamTek Type 8 flooring can also be used for Animal Holding, Laboratory, Pedestrian, Pharmaceutical, Lavatory and many other uses.

Type 8 can be installed over a sloping slab or a sloping mortar to enhance the flow of water to the drain(s). Sloping is recommended in all wet areas since flooring that is immersed under constantly ponding water and chemicals tends to deteriorate faster than flooring under alternate use conditions. Unless otherwise specified, Type 8 will follow the contour(s) of the existing substrate and can not be used as a stand alone system to correct such problems.

As with any flooring system, environmental conditions surrounding the installation are important. Ambient temperatures need to be above 65 F degrees with slab temperatures at or above 60 degrees F; humidity must be below 75%. These conditions can be tough to achieve in certain new construction scenario but if they are not achieved the installation may suffer aesthetically and the resins may not performed as designed. Consequently LSP can not be responsible for the performance of the flooring system installed under adverse conditions.

Rev 07/09

Type 8 has been designed to be resin rich and presents a dense system that will experience minimal damage from surface chips that break the sealed surface. Consequently it is sensitive to moisture migration through the substrate to the underside of the floor. Concrete substrates should be checked for moisture migration using ASTM F 1869-98 calcium chloride test. If the test results are 3 pounds and over we recommend moisture remediation.

Features and benefits include:

- LEED Compliant
- Outstanding Chemical Resistance
- Excellent Adhesion to Concrete
- Outstanding Thermal Stability
- Outstanding UV Stability
- no-VOC
- Low odor
- Low flammability
- High Taber Resistance

The LSP SeamTek systems in general are composed of resins and aggregates which utilize the best available technology for safety , performance and lowest environmental impact. All products and systems are extensively field tested prior to use on SeamTek projects.

Limitations

SeamTek quartz flooring must not be used to bridge moving cracks or joints. Non-moving cracks or joints that must be over coated require rigid repairs. Surface or air temperature must be between 65°F minimum and 80°F maximum and relative humidity below 75%. Lower temperatures will extend cure time and higher temperatures will reduce pot and work life. Chemical resistance as depicted in the specification is a relative classification and we recommend testing the chemicals you use in your facility on test flooring samples before making your final selection.

Storage and Handling

Because SeamTek resins have a flash point above 200°F (93°C), transportation, storage and handling are less restricted.

Product Health and Safety Information

Refer to container labels and Material Safety Data Sheets available from LSP for health, safety and environmental information. If necessary, call LSP at (800) 638-9874.

Applicable Standards

LSP SeamTek clear epoxy resins have been tested in accordance with American Society for Testing and Materials (ASTM) methods. Refer to Table 1 on page 1 for more information. SeamTek Type 8 can be used in food processing areas and other similar applications. The USDA and FDA no longer regulate coatings used on floors, walls, and ceilings in food process areas, since the surfaces are not intended for food contact.

Mixing

Caution, containers used to measure SeamTek epoxy resin and Harder must be marked appropriately and only used to measure the indicated component. Container used to mix both resin and hardener must be cleaned or changed after mixing each batch to avoid residual material affecting viscosity and cure rates.

Measure all components by volume into plastic marked containers. Pour resin and hardener or activator into a separate container and agitate using a jiffy paddle and low speed drill (400-600 rpm). Agitate all resins no less than 3 minutes, and then scrape sides of container and mix for an additional minute. Avoid generating air bubbles and foam. Consider mixing small batches to reduce potential waste. To avoid exothermic reaction in mixing container, do not let mixed components sit in container. Immediately, either pour the mixed epoxy binder resin onto the floor to be coated or thoroughly mix with aggregate and then pour onto floor. Spread or finish material according to application instructions contained in LSP Technical Manual.

3. Warranty

LSP Quartz Floor Systems are installed by LSP Associate Contractors and are available with the LSP Single Source Limited Warranty for Labor and Material. This Product Data Sheet is for your information and is neither a contract nor a product warranty. Your installation contract is provided by your LSP Associate Contractor. LSP's warranty to you is made solely in the LSP Single Source Limited Warranty for Labor and Material. Contact your Associate Contractor for the specific warranty document.

4. Maintenance

SeamTek Systems are hard seamless surfaces that will provide years of life with little maintenance. For more detailed maintenance instructions, please request LSP Floor Maintenance Instructions. Periodic inspections by your LSP Associate Contractor are recommended to discuss ways to extend the life of the floor care.

Material Components/Ratios and Spread Rates

Type 8 is an epoxy flooring systems designed to be 1/8" thick. It is called a double broadcast system; the resins and ratios are as follows:

- 1) 1st broadcast of neat resin: Mix **4101resin with CU90 activator @ 2% by volume** and apply to the floor with a v-notch trowel @ **72 sq ft per gallon**. Broadcast color quartz to excess
- 2) 2nd broadcast as per #2 above
- 3) Mix resin 8050 **with MEKP @ 2%** and apply as an initial seal coat @ a spread rate of **120 sq ft per gallon**
- 4) Seal with UV resin

(Note: resin 226 with 305 hardener may be required in the initial step)

Life Science Products, Inc.
124 Speer Road
Chestertown, MD 21620
(800) 638-9874