



## Product Data Sheet

### SeamTek® Mechanical Waterproofing System 1

#### 1. Product Description

##### Basic use

SeamTek® Waterproofing and Containment System 1 is a multi-component low-odor and low VOC waterproofing system incorporating urethane elastomeric resins and wear-course epoxy resins to form a monolithic waterproofing flooring surface. It has been specifically designed to exhibit crack bridging characteristics for leak protection while at the same time providing a heavy working surface. This system is compatible with most aggregates used to achieve skid, impact or wear resistance. It may also be used to incorporate decorative aggregates for areas where aesthetics are more important. Due to the excellent crack bridging capabilities the system is recommended for areas that are expected to exhibit excessive movement and vibration.

##### System Components:

EPOXY PRIMER: Two component 100% solids epoxy primer designed for resinous flooring systems.

ELASTOMERIC URETHANE: Single component elastomeric urethane membrane exhibiting 400% elongation embedded with fabric.

FLEXIBLE EPOXY WATERPROOFING: Two component 100% solids epoxy resin with 139% elongation seeded to excess with 30 mesh aggregate.

SEAL COAT (wear course): Two component 100% solids pigmented chemical resistant epoxy resin.

COVE BASE: A cove base of appropriate height is recommended for areas needing water proofing and containment. Cove

base should be applied to all vertical surfaces around equipment pads as well.

##### Features and benefits include:

- Crack bridging capability
- Fiberglass through floor penetrations
- Excellent adhesion to concrete
- 100% solids – solvent free
- Low VOC
- Low odor
- Low flammability

The STI SeamTek systems are composed of resins and aggregates which utilize the best available technology for safety and performance. All products and systems are extensively field tested prior to use on SeamTek projects.

##### Composition and Materials

SeamTek Mechanical Equipment Room Waterproofing System is composed of a series of resins designed to enhance crack bridging as well as load bearing characteristics.

#### 2. General Information and Handling

##### Limitations

Surface or air temperature must be between 65°F minimum and 80°F maximum and relative humidity below 80%. Lower temperatures will extend cure time and higher temperatures will reduce pot and work life. The system as described in this publication is recommended for containment of a wide range of chemicals. If containment of highly concentrated chemicals is required, contact STI for recommendations on specific seal coat resins and modifications.

The long term bonding of the WC system to the substrate is subject to negative side moisture vapor transmission.

Moisture testing of the substrate prior to installation for the purpose of determining the rate of moisture vapor transmission is essential for warranty consideration. Readings in excess of 3 pounds of water per 24 hour period per 1000 square feet will need remediation prior to installation of the waterproofing system.

##### Product Health and Safety Information

Refer to container labels and Material Safety Data Sheets available from STI for health, safety and environmental information. If necessary, call STI at (800) 666-6216.

##### Applicable Standards

STI SeamTek products have been tested in accordance with American Society for Testing and Materials (ASTM) methods. Refer to accompanying Tables for more information.

# Seamless Technologies, Inc.

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### Installation

#### Preparatory Work

Preparatory work must be done in accordance with procedures described in STI Technical Manual and will vary according to the mechanical room conditions. Preparation is limited to accessible area; dikes may need to be installed to protect contiguous areas that are not accessible. Fiberglass is recommended for application at all through floor penetrations.

#### Mixing

Caution: Containers used to measure system components must be marked appropriately and only used to measure the indicated component. Container used to mix components must be cleaned or changed after mixing each batch to avoid residual material affecting viscosity and cure rates. Measure each component by volume as recommended by STI. Pour components into a separate container and agitate using a jiffy paddle and low speed drill (400-600 rpm). Agitate for 2 minutes, 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 pour the mixed components onto the floor to be coated. Spread or finish material according to application instructions contained in STI Technical Manual.

### 3. Warranty

STI Flooring Systems are installed by STI Associate Contractors and are available with the STI Single Source Limited Warranty for Labor and Material. This Product Sheet is for your information and is not a contract nor a product warranty. Your installation contract is provided by your STI Associate Contractor. STI's warranty to you is made solely in the STI Single Source Limited Warranty for Labor and Material. Contact your Associate Contractor for the specific warranty document.

### 4. Maintenance

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