



SEWER SHIELD® 150 TROWELABLE

Structural Epoxy

Wastewater and Containment Acid Protection Lining Systems

DESCRIPTION: SEWER SHIELD 150 Trowelable is the next generation of 100% solids, solvent free, low odor, environmentally friendly, epoxy liner system. It is impervious to a wide variety of acids, caustic solutions, oils, grease and many other chemicals. SEWER SHEILD 150 Trowel is particularly resistant to Sulfuric Acid up to concentrations of 50%. No special precautions are necessary to help contain any odor or solvent smell often found in many other liner systems.

USES: SEWER SHIELD 150 Trowel is used as a lining system for protection against chemical attack to:

- Manholes
- Lift stations
- Headwork
- Pipelines
- Grit chambers
- Clarifiers
- Sumps
- Digesters
- Water containment areas
- Wastewater containment areas
- Floors and Walls
- Pits
- Trenches
- Tunnels

Due to the low odor and environmentally friendly nature it is ideal for use as a protection system in the wastewater and chemical industries.

Material Properties at 75° F.	
MIX RATIO, by volume	2:1
POT LIFE, 150 grams	35 -45 minutes
ASTM D4541, 7 Day Bond to damp Concrete	Concrete Failure
ASTM D695, 7 Day Compressive Strength, psi	>8,500
VOC	0 GRAMS / LITER

COLORS: SEWER SHIELD 150 TROWEL is supplied in the following colors: Beige. Special colors are available upon request.

ADHESION TYPES: Sewer Shield 150 is designed to be very tenacious on all surfaces in the wastewater & chemical industries – all metal, PVC linings, HDPE pipe, CIPP liners, cement, and VCP - with proper prep.

SURFACE PREPARATION: Concrete must be structurally sound, dry or damp, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is abrasive blasting or shotblasting. For oil contaminated surfaces using steam cleaning in conjunction with strong emulsifying detergent may be considered. Rinse thoroughly with potable water. After cleaning, remove defective concrete, honeycombs, cavities, joint crack voids and other defects by routing to sound material. Smooth, precast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shotblasting. If it is not possible to abrasive blast or shot blast, acid etching with a 15% Hydrochloric acid solution. After etching pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked as per ASTM D4262 following acid etching. Following surface preparation, the cleaned surface should pull concrete when tested with an Elcometer or similar pull tester (ASTM D4541). Before application of the lining system, use the "Visqueen test" (ASTM D4263) to evaluate moisture level in concrete.

New Concrete: Should be allowed to cure for a minimum of 28 days. (Consult manufacturer if earlier times are required). Remove any surface hardener or curing compounds, by using the recommended mechanical methods for surface preparation. Prepare surfaces as recommended above.

Old Concrete: For quick, small patching use suitable epoxy mortar; for larger areas, use cementations patching materials, which are compatible with the system. After patching, a light brush blast is recommended prior to coating.

MIXING INSTRUCTIONS: SEWER SHIELD 150 is available in pre-measured, pre-proportioned kits. Pour the entire contents of Part B, Hardener into the Part A, Base and mix thoroughly with a low speed drill and a "Jiffy" mixer paddle. Mix for a minimum of 3 minutes. Scrape the sides and bottom of the mixing container (including the paddle of the mixer) during mixing. If the paddle is too small or equipment is not adequate it will not give a uniform mix and an incomplete cure will result together with wet spots. Over mixing with a high-speed drill will shorten the pot life as well as introduce excess air into the mix. Mix only enough material that can be used within the working life.

COVERAGE: Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, and texture will determine actual material requirements.

CLEAN-UP INSTRUCTIONS: Clean tools and application equipment immediately after use with methyl ethyl ketone or xylol. Clean spills or drips while still wet with solvent. Dried material will require mechanical abrasion for removal.

PACKAGING: SEWER SHIELD 150 TROWEL is available in kits. Storage: 50-90 degrees F. Protect from moisture and freezing. Shelf Life: Two years in original, unopened containers, properly stored.

TECHNICAL SERVICE: For application procedures or surface conditions not specified above, please contact:

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