



# TANKSHIELD FOOD GRADE TANK LINING

## TECHNICAL DATA SHEET



### PRODUCT DESCRIPTION

**TANKSHIELD FOOD GRADE TANK LINING** is a 100% solids two-component epoxy coating specially formulated from high-grade resin and hardener for protection of storage tanks. It is lead-free and non-toxic when fully cured. It hardens to an abrasive-resistant coating, with high adhesive strength on properly prepared substrates such as concrete and steel. **TANKSHIELD FOOD GRADE TANK LINING** is water-impermeable and has excellent resistance to oil, solvent, alkalis, and most dilute acids.



### RECOMMENDED APPLICATIONS

Coating the interior and exterior surfaces of concrete, steel and wooden tanks such as those used for storing potable water, chemicals (except for high concentrated acids), grains powders and other liquids. It may be reinforced with fiber mesh as in the case of concrete structures that are not integrally waterproofed. It is also used as a grouting material to seal off the gaps where ceramic tiles are used to line storage tanks.



### ADVANTAGES

- ✓ Pre-package and proportioned
- ✓ Excellent durability
- ✓ High resistance to chemical and mechanical attack
- ✓ Applicable for vertical and horizontal substrates
- ✓ Can be applied directly to steel and concrete
- ✓ Excellent adhesion
- ✓ Smooth and glossy finish
- ✓ Compatible to potable water application



### PRODUCT INFORMATION

**COLOR:** white, black, **MIX RATIO :** 2 parts of Component A: 1 part of Component B by volume  
**WORKING TIME:** Approximately 30mins  
**STORAGE:** Store in a cool, dry place, away from direct sunlight.  
**SHELF LIFE:** 12 months from manufacturing date



### TECHNICAL INFORMATION

Mix density (A & B): 1.40 – 1.45 kl/lit  
Mix viscosity: 42,000 – 45,000cps  
Pot Life: 30-35 mins  
Setting time (depends on temperature): 20-23 mins  
Full cure time: 24 hours  
Mix Ratio by volume mix 2 parts of Part A (base) to 1 part of Part B (hardener)  
Bond strength (ASTM D2343 adapted): 900 psi at 7 days  
Compressive Strength at 7 days full curing (ASTM C109): 8,000 psi  
Heavy Metals Test Lead (Pb) Cadmium (Cd) :<0.4ppm (FDA Specs): 0.4ppm, Cadmium (Cd): 0.1 ppm  
Chemical Resistance: Resistant to most organic solvents, mild acids and alkalis



### ENVIRONMENT

Our facility complies with the proper waste management procedures. Our products are also free of ozone depleting substances.



### APPLICATION INSTRUCTION

#### SURFACE PREPARATION – Concrete Surfaces

All surfaces must be smooth, sound and free from debris. Surfaces must be free from oil contamination. Concrete surfaces must be free from any trace of release oils and curing compound.

**SURFACE PREPARATION – Steel Surfaces.** All surfaces should be grit blasted and the newly cleaned steel should be coated as soon as possible before the formation of rust.

**PRIMER APPLICATION** - Apply 2 coats of FLOORGUARD RPOXY PRIMER 100 and allow full curing of 24 hrs prior to the application of **TANKSHIELD FOOD GRADE TANK LINING**.

All surfaces should be grit blasted and the newly cleaned steel should be coated as soon as possible before the formation of rust.

**MIXING.** The entire contents of the hardener should be added to the base container and mixed thoroughly until a uniform consistency is obtained. The mixed material should be applied with a suitable stiff nylon type brush or roller. The first coat must be firmly applied and scrubbed into the surface ensuring a uniform coating. Second and subsequent coats may then be applied as necessary allowing 6-8 hours between each coat.



### COVERAGE

15-18 sqm per gallon set per coat



### SUSTAINABILITY

Our company is committed to Carbon Neutrality thru our various programs such as our GHG Emission Reduction Logistics Approach and OPTI Trees Planting Program.



### HEALTH & SAFETY

**TANKSHIELD FOOD GRADE TANK LINING** is non-toxic.



### QUALITY & DURABILITY ASSURANCE

Our stringent Quality Assurance Procedure for every batch of products manufactured. Our R&D Laboratory based in our production facility ensures that scientific Quality Control Parameters are measured for quality.

Our Quality Control Parameters ensure the stability of our products, ensuring the long-term durability amid exposure to various element and weather conditions.