



CHEMALINE # 500

General Description:

CHEMALINE # 500 is a two-component hi – build epoxy system to provide a solventless, odor free tanklining materials.

Major Uses:

Proven as an interior lining for all cooler boxes, sewage trenches, acid tanks, fermentation tanks, reservoir, grain silos, meat and food processing endowment, potable water tanks and other applications subjected to corrosion and abrasion.

Advantages:

- Solvent and odor free.
- Acid resistance.
- Alkali resistance.
- Abrasión resistant.
- Non – toxic.
- Glossy tile – like finish.
- Excellent adhesion to concrete and steel.

Characteristics and Physical Properties:

Color	Tile red, off white grey, Aqua blue.
Volume Solids	100 %
Specific Gravity	1.2
Mixing Ratio	3: 2
Pot Life	30 minutes.
Touch Dry	6 hrs.
To Recoat	8 – 10 hrs.
Hard to Dry	24 hrs.
Fully cured	7 Days.
Coverage	3 – 4 m ² / lit.
Dft.	250 – 350 microns.

Note: Coverage may change drastically depending on the porosity of the surface.

Chemical Resistance:

Test Result as per ASTM D 1308

Water, de – ionized	- Excellent
Sea Water	- Excellent
Sodium Chloride, 20%	- Very Good.
Crude Oil	- Excellent.
Sulphuric Acid, 10%	- Very Good.
Hydrochloric Acid, 10%	- Very Good.
Nitric Acid, 3%	- Excellent.
Acetic Acid, 10%	- Good.
Phosphoric Acid, 10%	- Good.
Ethanol, 50%	- Slight Softness.
Xylene	- Good.

Mechanical Properties:

Compressive Strength	-71 N / mm ²	ASTM C-579
Tensile shear strength	-15.5 N / mm ²	ASTM C-580
Coefficient of linear thermal	-5458 N / mm ²	ASTM C-580

Surface Preparation:

Steel:

Surface should be clean, grit blasted to a bright finish meeting the requirement of S.S. Sa 2 ½ , free from oil, grease and other contaminants.

Concrete:

Concrete and masonry surfaces should be clean, dry and free from loose debris, laitance. Apply 1 coat of multi – etch sol'n let it dry prior to the application of CHEMALINE # 500.

Mixing and Application:

The content of each material should be thoroughly stirred particularly the base resin to disperse any possible settlement. Materials are supplied pre – weighed and the entire hardener should be mixed into the base material thoroughly until homogenous solution and uniform color consistency is obtained. Mechanical mixing using power drill with suitable flat paddle is much preferred for 3 – 5 minutes. CHEMALINE # 500 can be applied by brush, roller and Airless Spray.

The first coat should be firmly applied and scrubbed well into the surface ensuring a continuous and uniform thickness.



Method of Application: By brush, roller and Airless spray

Spray Data	
Airless	
Nozzle Orifice	0.38 – 0.46 mm.
Nozzle Pressure	1138 - 1710 psi.
Dilution	Not applicable

Priming:

Priming is not required for properly prepared surfaces.

The above information is given to the best of our knowledge based on laboratory test and practical experience. However, as the paint is often used under condition beyond our control, we cannot guarantee anything but the quality of the paint itself. We reserve the right to change the given data without prior notice.

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Storage:

Keep resins and hardeners in a cool, dry place, out of direct sunlight and protected from extreme temperatures. Shelf life is upto one year in a close container.

Cleaning of Tools:

All tools should be cleaned with Wash Thinner or Epoxy Thinner # 135 as soon as possible.

Packing:

Available in 4 lit. Set and 20 lit. Set.

Physiological Hazards:

CHEMALINE # 500 does not contain solvents, nevertheless, good ventilation in working rooms is recommended as well as the use of safety tools and equipment. The mixture, in its liquid state is non – flammable but harmful if swallowed. If contact with eyes occurs, cleanse with fresh water and seek immediate medical advice.