

General Description:

CHEMALINE # 500 is a two-component high – build epoxy system to provide a solventless, odour free tanklining materials with anti fungal properties.

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

Characteristics and Physical Properties:

Colour	Tile red, grey, aqua blue
Volume solids	100%
Specific weight	1.2
Mixing ratio	3 : 2
Pot life @ 25°C	30 min.
Touch dry	6 hrs.
Recoat	8-10 hrs.
Hard dry	24 hrs.
Fully cured	7 days
Coverage	3-4 m ² /L
DFT	250-300 microns

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	Slight softness
Xylene	Good

Mechanical Properties:

Compressive Strength (ASTM C-579)	71 N/mm ²
Tensile Strength (ASTM C-580)	5.5 N/mm ²
Coefficient of Thermal Expansion (ASTM C-580)	5458 N/mm ²

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 and laitance. Apply 1 coat of multi etch solution, let it dry prior to the application of CHEMALINE # 500.

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.

MAS PAINTS & CHEMICAL INDUSTRY

P.O. BOX NO: 23085, SAJJAH INDUSTRIAL AREA, SHARJAH, U.A.E

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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.

Storage:

Keep resins and hardeners in a cool, dry place, out of direct sunlight and protected from extreme temperatures. Shelf life is up to 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.

Hot weather working practice:

While the properties of Chemaline # 500 at elevated temperatures are assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for the temperatures above 35°C, the following guidelines are adopted as a careful working procedure.

- Store unmixed materials in cool environment, avoiding exposure to sunlight.
- Keep mixing and placing equipment cool, arranging shade protection if necessary.
- Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- For hand application, ensure that there are sufficient operatives available to complete application within the pot life of the material.
- Have a ready supply of Epoxy Thinner # 135 or wash thinner for immediate cleaning of tools after use.

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.

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