



# CHEMALINE # 150

## General Description:

CHEMALINE # 150 is a two-component amine adducts cured epoxy paints, especially formulated for chemically resistant tank linings and coatings.

## Major Uses:

Proven as a tank lining for sewage trenches, acid tanks, reservoir, grain silos and other applications subjected to corrosion and abrasion.

## Advantages:

- Excellent chemical resistance.
- Excellent adhesion.
- Equally efficient on concrete and metal surfaces.
- Tough abrasion resistant film.
- Excellent immersion properties.
- Long maintenance – free life.
- Easy to apply.

## Characteristics and Physical Properties:

Colour	Tile red, off white, grey, Aqua blue.
Volume Solids	50 %
Specific Gravity	1.4
Mixing Ratio	4: 1
Flash Point	25 <sup>0</sup> C
Pot Life @20 <sup>0</sup> C	2 hrs.
Touch Dry @ 20 <sup>0</sup> C	6 hrs.
Hard to Dry @ 20 <sup>0</sup> C	24 hrs.
To Recoat	8 – 10 hrs.
Fully cured	7 Days.
Coverage	5 – 6 m <sup>2</sup> / lit.
Dft.	100 microns
Wft.	200 microns
Shelf Life	12 months.

## 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.
Citric Acid 30%	- Excellent

## Surface Preparation:

### Steel:

- Remove all oil or grease from surface to be coated with Thinner # 135 or Mas degreaser in accordance with SSPC – SP 1.
- For mild environments Hand Tool or Power Tool Clean in accordance with SSPC – SP 2, SSPC – SP 3 or SSPC – SP 11 to produce a rust – scale free surface.
- For more severe environments, abrasive blast to a Commercial Finish in accordance with SSPC – SP 6 and obtain a 1 ½ - 3 mil (40 – 75 micron) blast profile.
- For immersion service, abrasive blast to a Near White Metal Finish in accordance with SSPC – SP 10 and obtain a 1 ½ - 3 mil (40 – 75 micron) blast profile.

## 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 # 150 can be applied by brush or roller. The first coat should be firmly applied and scrubbed well into the surface ensuring a continues and uniform thickness.

## Thinning:

For spray application may be thinned up to 13 oz./gal. with Thinner #135. For hot and windy conditions, or for brush and roller application, may be thinned up to 16 oz./gal. with Thinner # 135.

Use of thinners other than those supplied by MAS Paint may adversely affect product performance and void product warranty, whether express or implied.

## Application Conditions:

	Material	Surfaces	Ambient	Humidity
Normal	16-29 <sup>0</sup> C	16-29 <sup>0</sup> C	16 – 32 <sup>0</sup> C	0 – 80%
Minimum	10 <sup>0</sup> C	10 <sup>0</sup> C	10 <sup>0</sup> C	0%
Maximum	32 <sup>0</sup> C	52 <sup>0</sup> C	43 <sup>0</sup> C	90%

Do not apply or cure the material when the surface temperature is less than 3<sup>0</sup>C above the dew point.

Special thinning and application techniques may be required above or below normal conditions.

### SPRAY:

This is medium solids coatings and may require slight adjustments in spray techniques. Wet film thicknesses are easily and quickly achieved. The following spray equipment has been found suitable and is available from manufacturers such as Binks, De Vilbiss and Graco.

### CONVENTIONAL:

Pressure pot equipped with dual regulators, 3/8" I.D. minimum material hose, .070" I.D. fluid tip and appropriate air cap.

### AIRLESS:

Pump Ratio (min.)"	: 30:1
GPM Output (min.)	: 3.0
Material Hose I.D. (min.)	: 3/8"
Tip Size .021	: .017 -
Output psi 2300	: 2100-
Filter Size mesh.	: 60

### BRUSH OR ROLLER:

Use medium bristle brush, or good quality short nap roller. Avoid excessive rebrushing and rerolling. Two to three coats may be required to obtain desired appearance, hiding and recommended DFT. For best results, tie – in within 10minutes at 24<sup>0</sup>C.

## Drying Time:

These times are based on 100 microns dry film thickness. Higher film thicknesses, insufficient ventilation or cooler temperatures will require longer cure times and could result in solvent entrapment and premature failure.

Excessive humidity or condensation on the surface during curing can interfere with the cure, can cause discoloration and may result in a surface haze or blush. Any haze or blush must be removed by water washing before recoating. During high humidity conditions, it is recommended that the application be done while temperatures are increasing. For best results over "damp" surfaces, apply by brush or roller.

## Repairing and Overcoating:

Areas, which have been previously coated with CHEMALINE # 150 and subsequently damaged, can be readily over coated. The existing coated surface must be well abraded, using sand blasting or wet applied abrasive paper, to ensure a good bond. Overcoating may then be carried out as for new work.

### NOTE:

Although CHEMALINE # 150 may be applied at temperatures down to 10<sup>0</sup>C, the curing time increases significantly in the lower ranges. For cold weather working, it is recommended that materials are stored in a heated building and only removed immediately before use. Accelerated heating methods must not be used.

## 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.

## Precautions:

### Health and Safety:



Some people are sensitive to epoxy resins so gloves and a barrier cream, kerodex 71, Rozalex 9, Debba – Wet work or similar should be used when handling these products. If contact with resin occurs, it must be removed, before it hardens, with a resin removing cream such as Kerocleanse 22, and Rozalex 42. Follow by washing with soap and water. Do not use solvent.

The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately. Ensure good ventilation and do not smoke during use.

### Fire:

CHEMALINE # 150 and Thinner # 135 are flammable. Ensure adequate ventilation when using primers and solvents. Do not smoke during use and do not use in the vicinity of a naked flame.

*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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