

BERGER EPIMASTIC 3000 HIGH BUILD SURFACE TOLERANT EPOXY

PRODUCT SCOPE

Berger Epimastic 3000 High Build Surface Tolerant Epoxy is a two component, high solids, high build and self priming surface tolerant epoxy coating. This product is a tough maintenance primer for steel substrates in situations where blasting is impractical and only power or hand tool surface preparation or cleaning is possible. It is an anti-corrosion primer/finish coat for blasted or hand tool cleaned substrates intended for immersion application. Berger Epimastic 3000 HS has excellent anti-corrosive performance with outstanding fresh and sea water resistance. The product is also capable of curing under adverse conditions, under water and at the temperatures as much down as 5 °C. This product can be used alone as well as in conjunction with a variety of primers and top coats.

PRODUCT COMPOSITION

Berger Epimastic 3000 is a Poly Amine Cured Epoxy Mastic Coating and is a blend of very special resins cured with Poly Amine Hardener. Inert extenders and specially selected pigments suspended in specialized medium, make the product excellent in hardness and corrosion resistance. This product is an ideal replacement for Coal tar epoxies.

TECHNICAL INFORMATION

Type of Product	Two Pack-Cold Cured
Priming Coat	Self Priming/Various Primers
Pack Viscosity	Thicksotropic
Gloss	Low to Matt Sheen
Color	Off White
Flash Point	28 °C
Volume Solids	82 ± 2%
Solvent Resistance	Good
Alkali Resistance	Very Good
Salt Resistance	Very Good
Water Resistance	Excellent
Abrasion Resistance	Excellent
Flexibility	Good
Mixing Ratio	7 Parts Base : 1 Part Hardener (Volume : Volume)
Standard Pack Size	4 Litres (3.5 Litres Base + 0.5 Litre Hardener)

APPLICATION INFORMATION

Application Method	Airless Spray (Tip Size 0.53~0.63 mm / 21~23 Thou), Air Pressure at Tip (110~160 Kg/m ² or 1600~2300 psi) Conventional Spray (May require additional dilution and multiple coats) Brush / Roller (May require multiple coats to achieve desired film thickness. Suitable for Stripe Coating, Welding Seams, Edges, Corners, Rivets, etc.)
Application Viscosity	Depends on Method of Application
Solvent / Cleaner	Berger Epoxy Thinner
Covering Capacity (Theoretical)	6.4 m ² /Litre @ 125 µm DFT (Assuming no loss)
Number of Coats	Recommended Two Coats
Dry Film Thickness	75~200 µm (Optimum Range)
Drying Time	Touch Dry: 6 Hours @ 15 °C
	Hard Dry: 12 Hours @ 15 °C
	Recoating Time: 16 Hours @ 15 °C
Pot Life (When Mixed)	4 Hours @ 15 °C

SURFACE PREPARATION

- Surface must be free from dust, dirt, oil, grease, rust and any loose, flaking matter.
- Degrease the surface with Epoxy Thinner in accordance with SSPC-SP1.
- For atmospheric exposure applications, mechanically clean the surface using hand or power tools to a minimum standard of St2 (ISO 8501-1:1998) or SSPC-SP2, taking care to avoid polishing the surface.
- Where essential, remove weld spatter and round-off all rough weld seams and sharp edges to smooth surface.
- Apply Epimastic 3000 HS immediately after blasting to prevent oxidation and recontamination of the steel surface. Recommended Dry Film Thickness must be achieved in order to get full performance of the product.

STORAGE AND HANDLING PRECAUTIONS

- Keep away from heat and spark sources as the product is flammable.
- Keep under shed, away from direct sunlight.
- Keep the containers closed in storage.
- Never breath the dust, mist, gas, and vapors from the container or spray mist during application.
- To avoid condensation of moisture on to substrate prior to coating, relative humidity should not exceed 85% and substrate temperature should be 3 °C above Dew Point.
- Use the paint in ventilation.
- Store below 35 °C for best performance.
- As long as container is firmly sealed and stored under recommended storage conditions, product can be used within 12 months of manufacturing date.

FIRST AID

In Case of Eye Splashes

- Wash with plenty of flowing cold water.
- Immediately consult the physician.

In Case of Inhalation (If the person feels dizziness or unconsciousness)

- Remove the person to open fresh air area.
- Provide artificial breathing if needed.
- Consult a doctor.

In Case of Ingestion

- Drink plenty of water or milk.
- Do not induce vomiting.
- Consult a doctor.

In Case of Skin Contact (If Irritation is felt)

- Wash with plenty of water and soap.
- Consult a doctor if irritation continues.

SPILLAGE HANDLING

- Do not wipe the place with solvent.
- Use wood sawdust and sand and thoroughly spread on the spilled paint.
- Gather the mixture, store in some waste drum and dispose off according to local environment regulations.
- Never throw out the paint in open garbage areas where fire is a norm.

SAFETY AND PRECAUTIONS

- Avoid prolonged and repeated contact with skin.
- Avoid prolonged inhalation.
- Never try to ingest the product.
- Always use safety items like goggles, mask, gloves, and apron for personal safety.
- Do not use the product in congested or poor ventilated areas.

The information contained here is in our best knowledge, true & accurate.
No guarantee of result implied, however, since conditions of use are beyond our control.
DFT may vary when multiple coats applied by roller/brush/spray gun.
The above-mentioned parameters will be achieved subject to the proper preparation of surface.
Losses may be added depending upon type of surface and means of application.