

Epoxy Asphalt Mastic

Solvent based, coal tar free epoxy mastic coating

A two component, high performance, high build, chemically cured, asphalt modified epoxy mastic coating. Coal-tar free.

Intended Uses:

Epoxy Asphalt Mastic is a heavy duty, high build coal-tar free coating for the protection of steel and concrete in areas where coal tar epoxy is normally used.

It is surface tolerant and self-priming on most surfaces, uniquely formulated to provide corrosion protection for steel and masonry surfaces exposed to water immersion or chemical splash, spillage, and fumes.

Ideal for use on underground steel storage tanks, underground steel piping, in sewage and wastewater treatment plants, petroleum refineries, chemical plants, pulp and paper mills, fertilizer plants, hydro and fossil fuel power plants, and underground coal & salt mines.

Epoxy Asphalt Mastic is excellent for fresh and saltwater immersion on steel and concrete structures on bridges, pilings, basins, and pits. Can be used on concrete block and poured concrete surface in commercial and industrial facilities. Perfect for resistance against crude oil, various solid chemicals, and soil stress.

Suitable as a lining in concrete tanks / reservoirs subject to pH 4-10.

Properties:

- Coal-tar free – no coal tar “burns”.
- Excellent chemical resistance – alkalis, dilute acids, sewage, salt brine, liquid fertilizers, crude oil etc.
- Excellent water immersion resistance to fresh and salt water.
- Abrasion resistance.
- Excellent flexibility even after prolonged exposure.
- Outperforms coal tar epoxies, in all respects, including toxicity, film embrittlement and application properties.

Technical Data:

Colour	Black
Finish	Semi-gloss
Mix Ratio (Volume)	4 : 1
Activator	Epoxy Activator Asphalt Mastic
Induction Period	20 minutes minimum
Density	1.5 Kg/ Litre
Volume Solids	70%
Typical Film Thickness	• 150 – 200µm DFT (215 – 290µm WFT) for atmospheric exposure. • 300 – 400µm DFT (215 – 290µm WFT per coat) for immersion or underground.
Theoretical Coverage	4.66 m ² / Litre @ 150µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Temperature Resistance	Dry non-continuous: 80°C
Number of Coats	1 – 2 coats by spray or brush
HS Code (Tariff Code)	32091000

Drying Information:

	0°C	5°C	10°C	20°C	30°C	40°C
Touch Dry	-	-	-	6 hrs	-	-
Hard Dry	-	-	-	24 hrs	-	-
Full Cure	-	-	15 days	7 days	3 days	2 days
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	20°C	30°C	40°C
Minimum	-	-	-	24 hrs	-	-
Maximum	-	21 days	12 days	4 days	3 days	2 days

Surface Preparation:

The performance of this product will depend upon the degree of surface preparation. The surface to be coated must be cleaned and free from contamination. Prior to paint application all surfaces should be assessed and treated in accordance with ISO 8504:2000.

Accumulated dirt and soluble salts must be removed. Dry bristle brushing will normally be adequate for accumulated dirt. Soluble salts should be removed by freshwater rinsing. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Steel

For immersion service, abrasive blast to minimum SSPC-SP10 or ISO8501-1:2007 Sa2½. The blast profile should be jagged rather than “peened” and between 1.5 to 2.5 mils (38 – 62 microns). After blasting, vacuum or blow off all abrasive dust and ensure surface remains clean before painting. For atmospheric service, abrasive blast to minimum SSPC-SP6 or ISO8501-1:2007 Sa2. For maximum performance, apply over ZINCFIX® 90, ZINCFIX® ZincFlake or Inorganic Zinc Primer.

For atmospheric exposure, weld seams and damaged areas should be cleaned to St3 (ISO 8501-1:2007) or SSPC SP3. When using power tools care should be taken to avoid surface polishing. Optimal performance will be achieved with blasting, where this is not practical hand preparation to SSPC-SP11 is recommended.

Concrete

Remove all dirt, oils, grease etc. and any loose material. All laitance should be removed by light abrasive blasting. Holes in concrete should be filled with an approved filler.

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Ensure that sufficient material be mixed so that the product can be applied within its use-able life. The temperature of the mixed product should preferably be above 10°C.
Pot Life	16 hours at 10°C 10 hours at 15°C 8 hours at 20°C 5 hours at 30°C 4 hours at 35°C

Thinner	SA65 Thinners	0 – 20% depending on application
Airless Spray	Tip range 21 – 31 Thou. Pressure at the tip should not be less than 150 bar (2200 PSI).	
Air Spray	Gun	Pressure/Gravity Feed
	Fluid Tip	1.6mm to 3.0mm
Brush/Roller	Suitable	
Work Stoppage	Thoroughly flush all equipment with SA65 Thinners . All unused material should be stored in tightly closed containers. Partially filled containers may show surface skinning and/or a viscosity increase of the material after storage. Material should be filtered, and viscosity re-adjusted before used.	
Clean Up	Clean all equipment immediately after use with SA65 Thinners . It is advisable to periodically flush out spraying equipment throughout the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time, including delays.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	5°C*	10°C	No lower limit
Maximum	45°C	45°C	95%

* Or 3°C above dew point

Limitations:

- In common with all epoxies, Epoxy Asphalt Mastic will chalk and discolour on exterior exposure. However, these phenomena are not detrimental to long term overcoating properties.
- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.

Pack Size:

5 & 20 Litre.

Storage:

- Shelf Life: 12 months at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Store at temperatures between 5°C and 35°C.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.