

Epoxy Surtol Aluminium HS

Solvent based, ultra-high solids, surface tolerant epoxy mastic

A two component, high solids, modified epoxy mastic coating containing aluminium flake and corrosive inhibiting pigments – surface tolerant

Intended Uses:

A high performance, high solids, epoxy aluminium formulation that is surface tolerant i.e. which can be applied to hand prepared surfaces as a self-priming high build coating with excellent adhesion to rusted steel and most aged paints. Only a single coat required for most applications.

Provides excellent anti-corrosive protection in industrial, coastal structures, pulp and paper plants, bridges, and offshore environments in both atmospheric exposure and immersion service.

Properties:

- Good adhesion to multiple substrates such as steel, cast iron, galvanized steel, aluminium, GRP, stainless steel, and aged epoxies.
- Provides excellent barrier protection
- For application onto a wide variety of substrates including hand prepared rusty steel, abrasive blast cleaned and hydro-blasted steel, and a wide range of intact aged coatings.
- Applied in heavy coat (125µm-150 DFT per application), as a high build primer which can be over-coated or as a highly effective primer/topcoat system (2 coats at 125-150µm DFT per coat).
- Exhibits good physical properties such as adhesion to steel and impact resistance.
- Resistant to humidity, saltwater immersion and exterior exposure conditions.
- Can be over-coated by a variety of topcoats, such as epoxies, polyurethanes, alkyds & acrylics.

Technical Data:

Colour	Aluminium
Finish	Semi-gloss
Mix Ratio (Volume)	1 : 1
Activator	Epoxy Activator Strontium Chromate
Density	1.3 Kg/ Litre (Mixed)
Volume Solids (Volume)	90%
Typical Film Thickness	125 – 250µm DFT, allow for loss factors
Theoretical Coverage	7.2 m ² / Litre @ 125µm DFT, allow for loss factors
Method of Application	Brush, roller, or spray
Flash Point	30°C
Number of Coats	1 – 2 by brush or spray
Temperature Resistance	• Continuous – 150°C

Drying Information:

	0°C	5°C	10°C	25°C	30°C	40°C
Touch Dry	-	-	-	4 hrs	-	-
Hard Dry	-	-	-	16 hrs	-	-
Full Cure	-	-	-	5 days	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	10°C	25°C	30°C	40°C
Minimum	-	-	-	16 hrs	-	-
Maximum	-	-	-	72 hrs	-	-

Note:

* See Specialized Coating Systems Definitions & Abbreviations.

• If over coating times are exceeded, the surface should be mechanically abraded, dry, clean & free from any contamination prior to re-coating.

*Immersion cure is 15 days at 25 degrees ceclius

Surface Preparation:

Degrease surfaces with Hydrosolve Degreaser followed by a high-pressure water rinse. Grind and fettle weld spatter, protrusions, and sharp edges. All surfaces must be dry and clean.

Steel

All surfaces shall be prepared in accordance with ISO 8501-2 St3, very thorough and localized hand and power tool cleaning.

Galvanizing

New galvanizing – degrease using Galvanized Iron Cleaner and rinse. Roughen up using 100 grit sandpaper or lightly flash blasting.

Old Galvanizing – abrade or abrasive blast clean with ultra-fine grit to remove corrosion product.

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 just 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	3 hours @ 25°C		
Thinner	SA65 Thinners	0 – 20% depending on application	
Airless Spray	Tip range 13 – 23 Thou. Pressure at the tip should not be less than 150 bar (2200 PSI).		
Air Spray	Recommended	Gun	Pressure/Gravity Feed
		Fluid Tip	1.8mm to 2 mm
Brush/Roller	Suitable	Typically, 40 – 50µm can be achieved	
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 good working practice to periodically flush out the spray equipment during the course of the working day. Frequency of cleaning will depend upon the amount sprayed, temperature and elapsed time, including delays
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Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	45°C	45°C	85%

* Or 3°C above dew point

Limitations:

- The material will chalk when exposed to sunlight.
- Adhesion between the product and the subsequent coats will be adversely affected if the over-coating time is exceeded. If exceeded, the surface must be abraded, or sweep blasted prior to re-coating.
- 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:

2 & 5 Litre.

Storage:

- Shelf Life: 12 months minimum 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.