SPECIALIZED COATING SYSTEMS
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Epoxy Avgas Tank & Pipelining

Solvent based epoxy coating/lining for fuel tanks, vessels & pipelines

A two component, solvent-based amine cured epoxy coating / lining.

Intended Uses:

Chemical resistant protective coating, formulated as a multi-coat finish coating system applied over a suitable high-performance primer - offers proven protection in immersion conditions against a wide range of petroleum products and related industrial materials. Extensively applied as a lining system for aviation fuel tanks, vessels, and pipelines.

Properties:

- Good resistance to a wide range of industrial chemicals and solvents.
- Good resistance to abrasion and mechanical damage.
- Up to 100°C dry temperature resistance.
- Excellent adhesion to surfaces primed with Epoxy Multi Prime.
- Good flexibility – resists expansion & contraction stresses.
- Normal Specification fuel tank calls for:
  - 1 coat Epoxy Multi Prime (100µm)
  - 2 coats Epoxy Avgas Tank & Pipelining (100µm per coat)

Technical Data:

Colour	Light grey & off white
Finish	Semi-gloss
Density	1.3 Kg/ Litre (mixed)
Volume Solids	45.6%
Mix Ratio (Volume)	4 : 1
Activator	Epoxy Activator Avgas
Typical Film Thickness	125µm DFT depending on system
Theoretical Coverage	3.7 m²/ Litre @ 125µm DFT, allow for loss factors
Method of Application	Brush, roller, or airless spray
Number of Coats	1 or 2
Flash Point	<30°C
Induction Period	Not required
Temperature Resistance	Dry continuous – 100°C
V.O.C	502 gm/ Litre

Drying Information:

	0°C	5°C	15°C	20°C	40°C	45°C
Touch Dry	-	-	-	4 hrs	-	-
Hard Dry	-	-	-	16 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	5°C	15°C	20°C	40°C	45°C
Minimum	-	-	-	16 hrs	-	-
Maximum	-	-	-	4 days	-	-
Full Cure	7 days or as determined by an MEK Rub Test					

* **Note:** A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing.

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product

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Systems & Compatibility:

Epoxy Avgas Tank & Pipelining can be applied directly to correctly prepared bare steel.

Consult A Specialized Coating Systems technical representative for coating system solutions.

Surface Preparation:

Abrasive Blast Cleaning and Mechanical Preparation

All surfaces to be coated must be dry, clean, and free from contamination. This product must only be applied to surfaces prepared by abrasive blast cleaning to Sa 3 in accordance with International Standard ISO 8501:2007 and SSPC-SP10. A sharp angular profile of 50 – 70 microns 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 mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Transfer the mixed contents to a clean container and continue to mix with a clean mixer to avoid any contamination by unmixed material. 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 15°C.	
Mix Ratio	4 part(s) base : 1 part(s) activator by volume.	
Pot Life	1 hour at 20°C (Discard material after expiration of pot life)	
Airless Spray	Tip range 17 – 31 Thou. Pressure at the tip should not be less than 150 bar (2176 PSI).	
Brush/Roller	Recommended	
Thinner	SA65 Thinner	0 – 20% depending on application
Cleaner	SA65 Thinner	For dry paint and equipment
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with **SA65 Thinner**. Once the kit has been mixed, they should not be re-sealed and it is advised that after prolonged stoppages, work recommences with freshly mixed units	
Clean Up	Clean all equipment immediately after use with **SA65 Thinner**. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	40°C**	45°C	100%

* Or 3°C above dew point

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Limitations:

- The product will chalk on the surface when exposed to sunlight.
- The product will discolour (yellow) when exposed to sunlight.
- Not resistant to strong acids and alkalis.
- Multi-coat dry film thickness of 250µm must not be exceeded for immersion conditions.
- 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.
- For best results bring the material temperature to between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with activator and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- 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: 18 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.

Precautions:

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

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