TECHNICAL DATA SHEET
UPS EA4 2217 AF – AVIATION FUEL

UNIQUE POLYMER SYSTEMS
INNOVATE | REBUILD | ENHANCE

UPS EA4 2217 AF – Aviation Fuel is a high-performance two-component solvent based epoxy coating. Specially developed as an internal lining for pipelines carrying aviation fuel or other refined petroleum products.

Product Information

Product Features

- Excellent corrosion resistance even under aggressive immersion conditions.
- Excellent adhesion to blast and mechanically cleaned surfaces.
- Surface protection in crude oil and mixtures, petrochemical products and most industrial chemical immersion.
- Withstand pigging operation in service.
- Fully compliant with the EI Standard 1541 'Requirements for internal protective coating systems used in aviation fuel handling systems'.

Product Applications

Steel Surfaces – As an internal lining for pipelines carrying aviation fuel or other refined petroleum products.

Technical Data

Appearance	
Colour	Red Oxide, Grey
Appearance	Semi-Matt Coating
Material Properties	
Volume Solids	55%±2%
VOC Value*	428g/l
Dry Heat Resistance	Up to 100°C
Specific Gravity (mixed)	1.40

*Note: Thinning for spray application will increase the applied VOC value. Thinned 10% - VOC – 465g/l

Surface Preparation

Surface Type	Minimum	Recommended
Surface Profile	Ry (30-75 microns) (ISO 8503-1)	Ry5 (30 – 75 microns) (ISO 8503-1)
Steel Surfaces	Sa2 (ISO 8501-1)	Sa2.5 (SIO 8501-1)

Ambient Condition

Ambient Air Temperature	**From +10 to +50°C**
Surface Temperature	From +10 to +50•C
Relative Humidity, below	85%
Dew Point	At least 3°C higher than steel temperature

Thickness & Theoretical Spreading Rate

Standard Grade	Min.	Recommended.	Max
Dry Film Thickness	50 microns	100 microns	150 microns
Wet Film Thickness	91 microns	182 microns	273 microns
Spreading Rate	11m² per LTR	5.5m² per LTR	3.6m² per LTR

Note – Practical coverage depends on the application conditions, structure to be painted, roughness of the surface and application method.

Minimum DFT could be applied to smooth surfaces with no allowance for losses and in multicoat system only.

Drying Times

Dry Film Thickness 100 microns	20°C
Dry to Touch	2 hrs
Hard Dry / Min Recoating Interval	16 hrs
Full Cure / Max Recoating Interval	7 days

Note – Drying times and polymerization depend from the relative humidity, temperature, ventilation conditions and the thickness of the film.

If maximum recoating time is exceeded, it is necessary to make surface roughness with abrasive, rinse with clean water to remove dirt and allow drying.

Application Data

Mixing Ratio by Volume 4:1

Base	**4 parts by volume**
Activator	1 part by volume

Stir Base and Activator separately (slow stirring) and then mix both components thoroughly with propeller stirrer. Before use the temperature of packaging and material should not be less than 3°C higher than the dew point.

Add thinner only after both components have been thoroughly mixed and stir the mixture.

Thinning: If necessary, the thinner UPS Thinners EP could be added up to 10% by volume.

Note – Adding a thinner will increase the drying time and increase the VOC value. In case of using thinner other than recommended, the manufacturer takes no responsibility for any possible reduction in the quality of the coating.

Cleaner: UPS Thinners EP

Pot Life (at 20°C): Approx. 8 hours after mixing

Application Methods

Spray Application – Airless spray is the main method of application. For other spraying methods, viscosity correction may be required.

Note – When airless spray is being used, excessively high tip spraying pressures should. Be avoided. The minimum pressure at the pump conducive with good atomization should be used.

Brush – Recommended for touch-up, stripe coating and small areas only. It is necessary to provide a nominal coating thickness.

Roller – Prohibited to use roller for application of priming coat. Roller could be used to build up the dry film thickness or minor touch up work.

Packaging

Component	Volume (LTRS)	Size of Containers (LTRS)
Base	16	20
Activator	4	5

Storage & Shelf Life

The product must be stored in original sealed containers. The storage conditions are to. keep the containers in a dry, well ventilated space away from source of heat or ignition.

Storage Temperature	From 5 to 30°C
Base	1 year
Activator	1 year

Note – After lasting storage material shall be stirred thoroughly until its precipitation is spread over the suspension homogenously. Precipitation in material does not change its properties or worsen its quality. After the expiration date has passed, it is necessary to check the quality of the paint material.

Global Availability

UPS EA4 2217 AF – Aviation Fuel is available from a network of Global Distributors for prompt delivery. For further details and the location of your local distributor, please contact Unique Polymer Systems on:
+44(0) 1531 636300 I sales@uniquepolymersystems.com

Technical Service

Complete technical assistance is available. Please contact Unique Polymer Systems with your requirements:
+44(0) 1531 636300 I sales@uniquepolymersystems.com