

Industrial Supplier of:

Abrasives Adhesives Chemicals Coatings Equipment Lubricants Sealants Silicones Tapes

Bradechem ISO9001 Registered Firm

BC 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	<u>Minimum</u>	Recommended
Surface Profile	Ry (30-75	Ry5 (30 – 75
	microns)	microns)
	(ISO 8503-1)	(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	50 microns	100 microns	150
Thickness			microns
Wet Film	91 microns	182 microns	273
Thickness			microns
Spreading	11m ² per	5.5m ² per LTR	3.6m ² per
Rate	LTR		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 BC 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: BC 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.

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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.

The products that we supply are for professional use only, it is your responsibility to read the technical data sheets before you place an order and prior to application of the product.

Quality: All Bradechem LTD Products are supplied under the scopes of the company's fully documented quality system.

Warranty: Bradechem LTD warrants that the performance of the product supplied will confirm to the typical descriptions quoted within this Technical Data Sheet provided the material is stored correctly and used according to the procedures detailed in the Technical Data Sheet for the material.

Health & Safety: Please ensure good practice is observed at all times during the mixing and application of this product. Protective gloves must be worn during the mixing and application of this product. Before mixing and applying the material please ensure you have read the fully detailed Material Safety Data Sheet.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Bradechem LTD accepts no liability arising out of the use of this information or the product described herein.