

Revised 04/2025 Issue 3

PRODUCT DESCRIPTION

A high solids micaceous iron oxide filled alkylated amide epoxy providing both corrosion resistance and high temperature resistance. The micaceous iron oxide provides higher temperature resistance, improved anticorrosion performance, film reinforcement, tolerance to over film thickness, and lower moisture permeation.

RECOMMENDED USE

• External protection for process pipes, valves and vessels operating continuously between the temperatures of -196°C and 204°C with excursions to 230° C.

· Suitable for use on both carbon and stainless steel in insulated, uninsulated and cryogenic environments

	PRODUCT TEC	HNICA	L DATA
Volume Solids:	78 ± 2 %, mixed (ASTM-D2697-91)	Airless S	ended A prav. Con
Weight Solids:	88% ± 2 %		
VOC:	< 250 g/I EPA Method 24, mixed	Typical 1	hickness
Colours:	Grey and Dark Grey Finish: Matt Minor color change may be exhibited in exposed		Rec
	service, but will not affect performance.	Dry	
Flash Point:	Base: 24°C, Hardener: 25°C	Wet	
Cleanser/Thinner	r: MEK (Methyethylketone) or Thinner C13 for cleaning. In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime.	Theoretic Consump	al ation*
		Theoretic	al Covera
	Thinning is normally not recommended. Do not reduce for ambient applications as it can affect film build, appearance and adhesion. If reduction is required for conventional spray or brush/roller application use MEK up to a maximum of 10% by volume (4% by weight). Thinning will affect VOC compliance, sag tolerance and dry film thicknesses.	*This figure makes no all containers and equipmer Film thickness will vary d	
		Pot Life:	
		+ 15°C	+ 23°0
Pack Size:	A two component material supplied in separate	2.5 hours	1.5 hou
	containers to be mixed prior to use: 18 litre (37.4 kg) units when mixed Weight will vary with colours and density.		
Mixing Ratio:	4 parts base to 1 part hardener by volume 100 parts base to 10 parts hardener by weight		
Density:	2.08 kg/l (may vary with colours)		
Shelf Life:	12 months from date of manufacture, stored in originally sealed containers in a cool and dry environment and store indoors at +5°C to +40°C		

Recommended Application Methods:

Airless Spray, Conventional Spray, Brush and Roller

Typical Thickness:

Recommended Spreading Rate Per Coat

HEAT-FLEX® 750

ALKYLATED AMIDE EPOXY

	Typical	Maximum
Dry	100 µm	200 µm
Wet	128 µm	256 µm
Theoretical Consumption*	0.267 kg/m² 1.128 l/m²	
Theoretical Coverage*	3.75 m²/kg 7.80 m²/l	

*This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment.

Film thickness will vary depending on actual use and specification.

Pot Life:

+ 15°C	+ 23°C	+ 35°C
2.5 hours	1.5 hours	1 hour

www.sherwin-williams.com/protectiveEMEA



Revised 04/2025 Issue 3

AVERAGE DRYING TIMES

For 100 µm Dry Film Thickness

	+ 15°C	+ 23°C	+ 35°C
To touch	75 min	45 min	30 min
To handle	10 hours	6 hours	3 hours
To recoat (min)	6 hours	4 hours	2 hours
To recoat (max)	60 days	60 days	60 days

Prior to further applications all contamination must be removed. In the case of extended recoating times consult Sherwin Williams customer service.

These figures are given as a guide only. Factors such as air movement, film thickness and humidity must also be considered.

APPROVALS & ENDORSEMENTS

Tested and approved to ISO 19277 CUI 3 ISO 12944 CX

SURFACE PREPARATION

Ensure surfaces to be coated are clean, dry and free from all surface contamination such as oil, grease, dirt and corrosion products to achieve satisfactory adhesion.

Steel:

Abrasive blast clean to Sa2½ (ISO 8501-1:2007), 50 - 75 μm profile. Stainless steel:

Sweep blasting according to ISO 12944-4 with a non-ferrous blasting abrasive, 50 μm profile.

MIXING

Fill base in a container and add hardener/catalyst at the specified mixing ratio. Stir thoroughly until a homogeneous compound is obtained.

We recommend to fill the mixed material into a clean container and mix again shortly as described above to avoid incorrect mixing.

APPLICATION CONDITIONS

Substrate temperature shall be between +5°C and +150°C and at least 3° C above the dew point.

Air and material temperature shall be between +10°C and +50°C. Relative air humidity shall be between 35% and 85 %.

APPLICATION EQUIPMENT

HEAT-FLEX® 750

ALKYLATED AMIDE EPOXY

Changes in pressures and tip sizes may be needed for satisfactory application characteristics. Always purge spray equipment before use with listed cleaner. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Airless Spray

Unit:	Efficient airless equipment
tip Size	0.38 - 0.48 mm (0.015 - 0.019 inch)
Operating Pressure	:150 bar

The airless spray details given above are intended as a guide only. Details such as fluid hose length and diameter, paint temperature and job shape and size all have an effect on the spray tip and operating pressure chosen.

As conditions will vary from job to job, it is the applicators responsibility to ensure that the equipment in use has been set up to give the best results.

If in doubt consult Sherwin-Williams customer service.

Conventional Spray

Atomising Pressure: 3,5 bar Fluid pressure: 0.3 bar Reduction:As needed up to 10% by volume (4% by weight) using MEK or Thinner C13 by volume.

Brush

The material is suitable for brush application to small areas. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat. Use natural bristle Reduction:As needed up to 10% by volume (4% by weight) using MEK or Thinner C13 by volume. **Roller** The material is suitable for roller application to small areas. Application of more than one coat may be necessary to give equivalent dry film thickness to a single spray applied coat. Use 3/8" woven with solvent resistant core. Reduction: As needed up to 10% by volume (4% by weight) using

MEK or Thinner C13 by volume.

RECOMMENDED SYSTEMS

Steel and Stainless Steel

2 x 125 - 250 µm HEAT-FLEX® 750

www.sherwin-williams.com/protectiveEMEA

This Data Sheet is specifically subject to the disclaimer which can be found at http://protectiveemea.sherwin-williams.com/Home/Disclaimer



HEAT-FLEX® 750 ALKYLATED AMIDE EPOXY

Revised 04/2025 Issue 3

ADDITIONAL NOTES

Do not tint.

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

Do not mix previously catalyzed material with new.

If an aesthetic finish is required for ambient temperatures up to 120°C, then Heat-Flex 750 is compatible with a wide range of Sherwin-Williams polyurethane, polysiloxane and NCO free finishes. At temperatures above 120°C, please consult with your Sherwin-Williams Representative.

For weld areas and small touch up repairs, power tool cleaning to St 3 according ISO 8501-1 is suitable. Optimal performance will be achieved with a minimum surface profile of 50 microns.

For application to substrate temperatures in excess of 100°C apply coating in several thin passes to allow solvent to escape and to prevent blistering. Allow at least 15-20 minutes between each coat.

HEALTH & SAFETY

Consult Product Health and Safety Data Sheet for information on safe storage, handling and application of this product.

WARRANTY

Whilst all statements made about our products (whether in this data sheet or otherwise) are correct and accurate to the best of our knowledge, we have no control over the quality or the condition of the substrate, the application conditions or the many other factors affecting your use and application of our product.

The appropriateness of the product under the actual conditions of application or intended use must be determined exclusively by you. The content of this document, and of any oral or written statements already made or to be made in relation to the subject matter of this document, including any suggestions as to appropriate products and any proposed application methods, technical details and other product information represent only test results or experience obtained under controlled or defined circumstances, and is therefore provided for general information purposes only.

Unless we agree specifically in writing to do so, we will not be liable to you for any loss or damage whether in contract, tort (including negligence), breach of statutory duty, misrepresentation, misstatement or otherwise, arising under or in connection with this document or such statements.

We disclaim any express or implied representations, warranties or guarantees (including any implied warranty of merchantability or fitness for a particular purpose), though nothing in this disclaimer excludes or limits our liability for death or personal injury arising from our negligence, or our fraud or fraudulent misrepresentation, or any other liability that cannot be excluded or limited by law.

All products supplied and technical advice given are subject to our Standard Terms and Conditions of Sale which you should request a copy of and review carefully.

This document may be modified and updated from time to time, and is uncontrolled once printed. It is the users responsibility to ensure they are using the most up to date version – this can be found at: <u>www.sherwin-williams.com/protectiveEMEA</u>.

If this datasheet has been translated, then it has been done using the English version as the source. In case of any queries, please refer to the master English version which can be found at: <u>www.sherwin-williams.com/</u> <u>protectiveEMEA</u>.

www.sherwin-williams.com/protectiveEMEA