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SYSTEMS



Allter-Guard™ Flowcoat EP60

PRODUCT DATA SHEET

Selection and Specification Data

Generic Type	Two component, solvent based epoxy coating system
Product Description	Allter-Guard™ Flowcoat EP60 is a solvent based self-priming epoxy coating system developed as an internal flow efficiency lining. The cured coating has a good abrasion and chemical resistance to sweet and sour gas, withstands hydrostatic testing and pigging operations and makes a very significant contribution to increase gas flow by reducing friction. Flowcoat EP60 is API RP 5L2, ISO 15741-1-E 2016 and BS EN 10301 approved. Application is specific for use as internal lining for gas transmission and distribution pipelines.
Features	<ul style="list-style-type: none">• API RP 5L2, ISO 15741-1-E 2016 and BS EN 10301 approved.• Excellent adhesion and overall chemical resistance• Good impact and abrasion resistance• Friction reducing coating• Compatible with pigging operations• Service temperature from -40up to 110°C (-40 up to 230°F)• Can be applied with Airless, conventional spray and brush• Simple 3:1 mixing ratio• >3 hours Potlife at 23°C (73°F)• Perfect for in shop use (OEM)
Color	Oxide red
Finish	Eggshell
Primer	Self-priming
Dry Film Thickness	75-100micron (3-4 mils) per coat. Two coats are recommended for maximum system performance.
Volume Solids	60% ±2%

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Theoretical Coverage Rate 8.0m²/l at 75micron DFT (325.9 ft²/gal at 3 mils)
6.0m²/l at 100micron DFT (244.4 ft²/gal at 4 mils)

VOC 480 g/l (4.04 lbs/gal)

Temperature Resistance -40 up to 110°C (-40 up to 230°F)

Topcoats NR

Substrate and Surface Preparation

General Remove all dirt, grease, mill scale, loose rust and any other contaminants that can reduce adhesion according to SSPC-SP1 solvent cleaning, followed by the recommended substrate preparation as listed below.

Carbon steel For maximum system performance, abrasive blasting according to Sa2½ (ISO 8501-1), SSPC-SP10, NACE 2 with a 50-75micron (2-3mils) surface profile (Rz). Minimum substrate preparation St2/St3/SSPC-SP2/SP3 for Touch-up and Spot repair.

Mixing and Thinning

Mixing Allter-Guard™ Flowcoat EP60 has a 3:1 mixing ratio (in volume). Both components must be minimum 10°C (50°F) in temperature before starting mixing. Agitate Part A (base) with a power mixer. Add Part B (curing agent) and mix thoroughly with a power mixer until uniform in colour. Use low speed mechanical mixing equipment.

Thinning		
	Airless:	0-5% Thinner 101
	Conventional:	5-10% Thinner 101
	Brush:	0-5% Thinner 101

Pot Life 4 hours at 20°C (68°F)

Application Equipment

General The following information can be used as a guideline to apply the coating system. Site conditions may require modifications in spray pressure and tip sizes.

Airless spray A minimum 30:1 pump ratio, with a minimum 3/8" ID material hose, 0.017-0.021" tip size and 148-160 bar (2100-2300 psi) pressure. Use 60 mesh filter.

Conventional spray Pressure pot equipped with dual regulators, a 3/8" ID material hose, a 1.8-2.2mm. fluid tip and 2.1-2.8bar (30-40psi) fluid pressure.

Brush Use a natural bristle brush and apply the material in full strokes. Avoid re-brushing.

Application Conditions

	Condition	Material	Surface	Ambient	Rel. Humidity
	Minimum	10°C (50°F)	10°C (50°F)	10°C (50°F)	0%
	Maximum	30°C (86°F)	50°C (122°F)	50°C (122°F)	90%
This material requires the substrate temperature to be 3°C (5°) above dew point					

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Curing Schedule

	Temperature	Touch dry	Dry to recoat	Dry to handle	Final Cure
	10°C (50°F)	12 hours	24 hours	3 days	7 days
	15°C (59°F)	8 hours	16 hours	2 days	5 days
	20°C (68°F)	4 hours	12 hours	1 day	3 days
	30°C (86°F)	3 hours	10 hours	12 hours	2 days
Note: Drying times can vary upon different environmental conditions. Material should be applied within the supplied parameters to ensure drying and recoat times are respected. This material has an unlimited recoat time, even after exposure at elevated temperatures.					

Cleanup and Safety Information

Cleanup Use Thinner 101

Safety This material is for professional use only. Please observe the precautionary information on the safety data sheets (SDS) and label on the containers before using this material. Use of this material must be kept in compliance with local health, safety and environmental conditions and regulations.

Packaging, Handling and Storage

Shelf life Minimum 12 months at 23°C (73°F)

Storage temperature and humidity 4 - 50°C (39-122°F).
85%.

Storage Material should be stored indoors, well ventilated and away from sources of heat and ignition.

Shipping weight 20 litres (24.4 kg) 5.28 Gallon (53.8 lbs)

Flash point (ISO 1523) Part A: >25°C (77°F)
Part B: >25°C (77°F)

DATE: January 2020

DISCLAIMER: Allter Coatings warrants that the product(s) represented within conform(s) to its/their chemical and physical description and is appropriate for the use as stated on the respective technical data sheet when used in compliance with Allter Coatings written instructions. Since many installation factors are beyond the control of Allter Coatings the user is obligated to determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Allter Coatings liability is stated in the standard terms and conditions of sale. Allter Coatings makes no other warranty either expressed or implied. All information contained in the respective technical data sheet(s) should be used as a guide and is subject to change without notice. This document supersedes all previous revisions. Please see revision date on the left. Allter® is a registered trademark.