

CE-206 Page 1 of 2 Furalac[™] FN Mortar

SELECTION & SPECIFICATION DATA

SELECTION & SPECIFICATION DATA		INSTALLATION GUIDANCE		
Туре	High temperature carbon-filled furan brick mortar	Reference Specifications		onArmor Specification for Brick tar Mixing
Description Uses	Furalac FN Mortar is a 2-component carbon-filled mortar used to bond and bed acid brick in high temperature chemical environments. Bond and bed chemical resistant masonry	Installation Conditions	Furalac FN Mortar is formulated for ideal handling at 70°F (21°C). For temperatures between 35°F (2°C) and 50°F (10°C), add F/P Mortar Accelerator to speed cure.	
	 including acid brick, carbon brick and tile in: Wet gas/hot gas interfaces Quench tanks Wet gas scrubbers Humidifying towers Reaction tanks Furalac FN Mortar may be used in lieu of silicate mortars where they fail to withstand scrubber solution degradation at hot gas inlets.	Ratio	Powder loading individual brickl To speed cure ir F/P Accelerator: weight).	parts powder by weight may be adjusted slightly to suit ayer handling preferences. a cool temperatures, add 1 part 20-25 parts resin (4-5% by
Features	 Continuous temperature resistance to 420°F (215°C), intermittent to 480°F (250°C) Broad resistance to acids, alkalis and solvents Resistant to strong sodium hydroxide Resistant to hydrofluoric acid Electrically conductive Easy workability, non-slumping consistency Rapid strength gain 	Mixing	add powder to r until powder is t To speed cure at accelerator to m	lean, dry mixing vessel. Slowly esin at specified ratio and mix horoughly wetted. t cool temperatures, add ixed mortar at specified ratio. erator directly to resin as it may nt reaction.
Limitations	Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.	Work Life	 75 - 85 minutes at 50°F (10°C) 25 - 40 minutes at 70°F (21°C) 10 - 20 minutes at 90°F (32°C) Above results are without F/P Mortar Accelerator. Consult ErgonArmor for information on the effect of accelerator on set time. Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume. MEK 	
		Cleanup		
		CURE TIME		
		Temperature	Initial Set	Full Cure
		70°F (21°C)	1.5 - 2 hours	72 hours
		<u>SAFETY</u>		
		Safety	number of haza information, pre	cations of this product present a rds. Read and follow the hazard cautions and first aid directions I product labels and safety data ing.
		Ventilation		h air circulation during and after I the material has cured when I areas.



PACKAGING, ESTIMATING & HANDLING

Code

19572

19571

19561

22179

A 1.43 cubic foot (137 lb or 62 kg) unit consists of 1 x 49 lb (22.3 kg) pail of

A 45 lb (20.4 kg) pail of accelerator is sufficient for 20-25 pails of resin.

conditions.

ErgonArmor.

Packaging

49 lb (22.3 kg) pail

44 lb (20 kg) bag

45 lb (20.4 kg) pail

Consumption will vary based on brick size and

joint width. Consult estimating guide CES-145.

Maintain products in original packaging and

If there is any question with respect to the quality of the components, check reactivity prior to use. For assistance consult with

sealed until ready for use. Estimated shelf life is

2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage

525 lb (239 kg) drum

Product

Furalac FN Resin

Furalac FN Resin

Theoretical

Coverage

Storage &

Shelf Life

Furalac FN Powder

F/P Mortar Accelerator

resin and 2 x 44 lb (20 kg) bags of powder.

CE-206 Page 2 of 2 Furalac[™] FN Mortar

TYPICAL PHYSICAL PROPERTIES

Property

Color	Black
Density, ASTM C138	96 lb/ft³ (1,538 kg/m³)
Compressive strength, ASTM C579	>8,000 psi (55 MPa)
Tensile strength, ASTM C190	>1,000 psi (6.9 MPa)
Flexural strength, ASTM C580	>2,600 psi (17.9 MPa)
Absorption, ASTM C413	0.6%
Bond strength to brick, pull blocks	>400 psi (2.8 MPa)
Maximum service temperature	420°F (215°C) continuous 480°F (250°C) intermittent

Typical Value

Rev 03/2021

TERMS AND CONDITIONS OF SALE

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