

Furalac™ FN Mortar

SELECTION & SPECIFICATION DATA

Type High temperature carbon-filled furan brick mortar

Description Furalac FN Mortar is a 2-component carbon-filled mortar used to bond and bed acid brick in high

temperature chemical environments.

Uses

Bond and bed chemical resistant masonry 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.

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

Limitations

Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications CES-358 Ergor

ErgonArmor Specification for Brick

Mortar Mixing

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.

Ratio 1 part resin: 1.8 parts powder by weight

Powder loading may be adjusted slightly to suit individual bricklayer handling preferences.

To speed cure in cool temperatures, add 1 part F/P Accelerator: 20-25 parts resin (4-5% by

weight).

Mixing Pour resin into clean, dry mixing vessel. Slowly add powder to resin at specified ratio and mix

until powder is thoroughly wetted.

To speed cure at cool temperatures, add accelerator to mixed mortar at specified ratio. Never add accelerator directly to resin as it may

produce a violent reaction.

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.

Cleanup MEK

CURE TIME

TemperatureInitial SetFull Cure70°F (21°C)1.5 - 2 hours72 hours

<u>SAFETY</u>

Safety Mixes and applications of this product present a

number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data

sheets before using.

Ventilation Provide thorough air circulation during and after

application until the material has cured when

used in enclosed areas.





PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
Furalac FN Resin	19572	49 lb (22.3 kg) pail
Furalac FN Resin Furalac FN Resin	19570 19571	500 lb (227 kg) drum 525 lb (239 kg) drum
Furalac FN Powder	19561	44 lb (20 kg) bag
F/P Mortar Accelerator	22179	45 lb (20.4 kg) pail

A 1.43 cubic foot (137 lb or 62 kg) unit consists of 1 x 49 lb (22.3 kg) pail of resin and 2 x 44 lb (20 kg) bags of powder.

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

conditions.

ErgonArmor.

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Consumption will vary based on brick size and joint width. Consult estimating guide CES-145.

Storage & Shelf Life

Maintain products in original packaging and 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

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

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
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

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