

SELECTION & SPECIFICATION DATA

Type	Carbon-filled furan resin brick mortar
Description	Furalac Green Panel Mortar is a 2-component carbon filled mortar used to bond and bed acid brick in a wide variety of chemical environments.
Uses	Bond and bed chemical resistant masonry including acid brick, carbon brick and tile in the chemical, pharmaceutical and food processing industries.
Features	<ul style="list-style-type: none"> • Easy workability, non-slumping consistency • Rapid strength gain • Broad resistance to acids, alkalis and solvents • Resistant to strong sodium hydroxide • Resistant to hydrofluoric acid • Temperature resistance to 350°F (176°C)
Limitations	Not for use beyond its chemical resistance or thermal capabilities. Consult ErgonArmor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-358 ErgonArmor Specification for Brick Mortar Mixing						
Installation Conditions	Furalac Green Panel 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 accelerate cure.						
Ratio	<p>1 part resin: 1.75-2.0 parts powder by weight.</p> <p>Powder loading may be adjusted slightly to suit individual bricklayer handling preferences.</p> <p>To speed cure in cool temperatures, add 1 part F/P Accelerator: 20-25 parts resin (4-5% by weight).</p>						
Mixing	<p>Pour resin into clean, dry mixing vessel. Slowly add powder to resin at specified ratio and mix until powder is thoroughly wetted.</p> <p>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.</p>						
Work Life	<p>75 - 85 minutes at 50°F (10°C) 25 - 40 minutes at 70°F (21°C) 10 - 20 minutes at 90°F (32°C)</p> <p>Above results are without F/P Mortar Accelerator. Consult ErgonArmor for information on the effect of accelerator on set time.</p> <p>Work life is shorter at higher temperatures. A larger volume of mixed material will have a shorter work life than a smaller volume.</p>						
Cleanup	MEK						
<u>CURE TIME</u>							
Temperature	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%; text-align: center;">Initial Set</td> <td style="width: 33%; text-align: center;">Full Cure</td> </tr> <tr> <td style="vertical-align: top;">70°F (21°C)</td> <td style="text-align: center;">40 - 85 minutes</td> <td style="text-align: center;">72 hours</td> </tr> </table>		Initial Set	Full Cure	70°F (21°C)	40 - 85 minutes	72 hours
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<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 Resin	29557	44 lb (20 kg) pail
Furalac Resin (export)	29558	44 lb (20 kg) tight head pail
Furalac Resin	19563	500 lb (227 kg) drum
Furalac Green Panel Powder	29556	44 lb (20 kg) bag
F/P Mortar Accelerator	22179	45 lb (20.4 kg) pail

A 1.43 cubic foot (132 lb or 60 kg) unit consists of 1 x 44 lb (20 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.

Theoretical Coverage

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 conditions.

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

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Black
Density, ASTM C138	92 lb/ft ³ (1,474 kg/m ³)
Compressive strength, ASTM C579	>12,000 psi (83 MPa)
Tensile strength, ASTM C190	>1,200 psi (8.3 MPa)
Flexural strength, ASTM C580	>3,000 psi (21 MPa)
Absorption, ASTM C413	0.15%
Bond strength to brick, pull blocks	>1,500 psi (10 MPa)
Maximum service temperature	360°F (182°C)

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