

SELECTION & SPECIFICATION DATA

Type	Carbon filled phenolic mortar
Description	Asplit CN Mortar is a 2-component mortar used to bond and bed acid brick in chemical environments. F/P Mortar Accelerator may be added to speed cure in cool temperatures.
Uses	<p>Bond and bed acid resistant brick linings used in:</p> <ul style="list-style-type: none"> • Process vessels • Pickling tanks • Flooring • Sumps • Trenches • Secondary containment
Features	<ul style="list-style-type: none"> • High temperature resistance • Resistant to strong acids including sulfuric acid • Resistant to fluorosilicic and hydrofluoric acids • Resistant to solvents, weak oxidizers and alkalis • Excellent adhesion to brick and tile surfaces • Electrically conductive • Creamy consistency • Low shrinkage
Limitations	Not resistant to strong oxidizers or alkalis. 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	Asplit CN 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	<p>1 part resin: 2.25-2.5 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 in 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>40 - 75 minutes at 50°F (10°C) 20 - 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 work life and 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%;">Initial Set</td> <td style="width: 33%;">Full Cure</td> </tr> <tr> <td>70°F (21°C)</td> <td>4 - 6 hours 72 hours</td> </tr> </table>	Initial Set	Full Cure	70°F (21°C)	4 - 6 hours 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
Asplit Phenolic Resin	19532	48 lb (21.8 kg) pail
Asplit Phenolic Powder-Carbon	19708	55 lb (25 kg) bag
F/P Mortar Accelerator	22179	45 lb (20.4 kg) pail

A 1.72 cubic foot (158 lb or 71.7 kg) unit consists of 1 x 48 lb (21.8 kg) pail of resin and 2 x 55 lb (25 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 resin shelf life is 4-6 months when stored in a dry area at 70°F (21°C). For maximum shelf life, store resin at 40°F (4°C). Estimated powder and accelerator shelf life is 2 years. 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, 7-day	>8,000 psi (55 MPa)
Tensile strength, ASTM C307, 7-day	>1,000 psi (6.9 MPa)
Flexural strength, ASTM C453	>1,800 psi (12.4 MPa)
Absorption, ASTM C413	0.9%
Maximum service temperature	375°F (190°C)

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