



Asplit™ Special Mortar

SELECTION & SPECIFICATION DATA

Type	Quartz filled phenolic mortar
Description	Asplit Special Mortar is a 2-component mortar used to bond and bed acid resistant brick in chemical environments. F/P Mortar Accelerator may be added to speed cure in cool temperatures.
Uses	Bond and bed acid resistant brick linings used in: <ul style="list-style-type: none">• Process vessels• Alum digesters• 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 solvents, weak oxidizers and alkalis• Excellent adhesion to brick and tile surfaces• Electrically non-conductive• Compatible with lead-membrane• Creamy consistency• Low shrinkage
Limitations	Not resistant to fluorides, strong oxidizers or alkalis. Not for use beyond its chemical resistance or thermal capabilities. Consult Armor with specific questions.

INSTALLATION GUIDANCE

Reference Specifications	CES-358	Armor Specification for Brick Mortar Mixing
Installation Conditions	Asplit Special 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: 3.5 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 in 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	40 - 75 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 Armor for information on the effect of accelerator on work life and 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	
<u>CURE TIME</u>		
Temperature	Initial Set	Full Cure
70°F (21°C)	1.5 - 3 hours	72 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.	

**Asplit™ Special Mortar****PACKAGING, ESTIMATING & HANDLING**

Product	Code	Packaging
Asplit Phenolic Resin	19532	48 lb (21.8 kg) pail
Asplit Phenolic Powder-Special	19535	56 lb (25.4 kg) bag
F/P Mortar Accelerator	22179	45 lb (20.4 kg) pail

A 1.93 cubic foot (216 lb or 98 kg) unit consists of 1 x 48 lb (21.8 kg) pail of resin and 3 x 56 lb (25.4 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. ASPLIT Resin is sensitive to heat. Store indoors, unopened, between 40°F and 45°F (4°C and 7°C) to maximize shelf life. To optimize handling, bring material to 64°F to 70°F (18°C to 21°C) immediately prior to use. Do not use thick or gelled resin. Estimated 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 Armor.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
Color	Sand, black when cured
Density, ASTM C138	112 lb/ft ³ (1,794 kg/m ³)
Compressive strength, ASTM C579, 7-day	>5,750 psi (40 MPa)
Tensile strength, ASTM C307, 7-day	>550 psi (3.8 MPa)
Flexural strength, ASTM C453	>1,000 psi (6.9 MPa)
Absorption, ASTM C413	0.9%
Maximum service temperature	375°F (190°C)

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