



TECHNICAL INFORMATION

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ERGONARMOR INSTALLATION SPECIFICATION

ASPLIT™ PHENOLIC MORTARS - MIXING AND USE

1. SCOPE

This specification describes storage, handling, mixing, application, and cleanup of Asplit CN Mortar and Asplit Special Mortar, two-component phenolic resin mortars used in acid-proof masonry construction.

2. STORAGE

2.1 Asplit Resin

2.1.1 Ideally resin is stored at 40°F (4°C) to maximize shelf life. Store resin at installation temperatures for 48 hours immediately prior to use.

2.1.2 Shelf life is approximately 4-6 months when stored in unopened packages at 70°F (21°C). Shelf life may be shorter or longer than estimated depending upon storage conditions. Storage temperatures more than 80°F (27°C) will rapidly reduce shelf life. If there is any question as to the quality of the resin, check the reactivity prior to use. Consult with ErgonArmor for guidance.

2.2 Asplit CN Powder and Asplit Special Powder

2.2.1 Store powder in a dry location protected from chemical vapors and mists.

2.2.2 Shelf life is approximately 12 months at 75°F (24°C) when stored in a dry location in unopened packages. Shelf life may be shorter or longer than estimated depending upon storage conditions. If there is any question as to the quality of the resin, check the reactivity prior to use. Consult with ErgonArmor for guidance.

2.3 Brick

2.3.1 Store brick-under cover to keep out moisture and frost. Break open

pallets when climatizing brick 48 hours prior to installation.

3. ENVIRONMENTAL CONDITIONS

3.1 Temperatures

3.1.1 Asplit CN Mortar and Asplit Special Mortar are designed for optimal handling at 70°F (21°C). They may be used at temperatures as low as 40°F (4°C) and as high as 90°F (32°C). Work life, initial set, and cure times are shorter at higher temperatures. For material or installation temperatures between 40°F (4°C) and 60°F (16°C), use F/P Accelerator cold temperature cure accelerator as directed on product data sheet CE-254.

3.1.2 Masonry, substrate, and air temperatures will affect mortar set and cure times. Materials, including brick and mortar; substrate; and air temperatures should be brought to 70°F (21°C) prior to installation and maintained throughout installation and cure.

3.1.3 Pallets of brick should be broken open while brick are acclimating to installation temperatures to ensure good air circulation and distribution of heat.

3.2 Contaminants

3.2.1 Brick must be clean, dry, and of neutral pH at the time of installation.

3.2.2 Acidic or alkaline fumes or mists and premature exposure to water are known to interfere with mortar cure. Protect the materials storage, mixing, and installation areas from such contaminants.

4. MIXING

4.1 Stir Asplit Resin.

4.2 Transfer measured portion of resin to the mixing vessel.

4.3 Add measured portion of powder to the mixing vessel a little at a time while mixing with a mechanical mixer or hoe until the powder is fully wetted out and the mortar is creamy and free of lumps.

4.4 As required for material and installation temperature conditions, add measured portion of F/P Accelerator to mixed resin and powder and mix thoroughly. Do not add F/P Accelerator directly to resin. Consult section 5.6.

4.5 At the specified mix ratio, the wet mortar will be looser at higher temperatures

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and stiffer at lower temperatures, because the resin will be thinner at higher temperatures and thicker at lower temperatures. Never add thinner to adjust the mortar handling characteristics.

- 4.6 The hardener is in the powder. It is important to keep the mix ratio of resin to filler by weight as close to the values published on product data sheet CE-254 as possible to assure adequate reactivity. Powder loading may be varied to suit the bricklayers' handling preferences.
- 4.7 Do not use less powder to extend the work life or more powder to speed cure. Use heat or cold to control the reactivity of the mixed mortar.
- 4.8 These mortars have a short work life. Do not mix too much mortar at one time. Only mix the amount of mortar that the bricklayers can apply within the work life. Work life is shorter at higher temperatures.
- 4.9 Mortar that has begun to set cannot be recovered or tempered by adding more resin, water, or thinner. It must be discarded.
- 4.10 Never add water, thinner, or other chemicals to the mortar.

5. APPLICATION

- 5.1 Apply wet mortar to clean, dry, neutral masonry surfaces using a trowel.
- 5.2 Spread mortar in a uniform layer over all brick bonding surfaces to exclude voids.
- 5.3 Mortar joints should be completely full and as thin as possible given the limits of the dimensional uniformity of the brick, typically nominal 1/8-inch (3.2 mm) thick. If the brick vary in size, the mortar joints will necessarily be wider to compensate for this variability.
- 5.4 Apply the mortar to the surface of the membrane for the bed joint then apply mortar to two adjacent sides of the brick and press into the wet bed of mortar.
- 5.5 To manage hot installation temperatures
 - a. Mix smaller batches of mortar, so they can be consumed more quickly.
 - b. Keep the brick and mortar materials in a shaded location under 70°F (21 °C) and refrigerate the mortar resin at 40°F (4 °C) for 48 hours prior to installation.
 - c. Place the mortar mixing container in another container of ice water, taking care to prevent the ice water from getting into the mortar.

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- 5.6 To manage cold installation temperatures
- a. Keep the brick and mortar materials in a warm location above 75°F (24 °C), taking care to break open the pallets of brick for good air circulation, for 48 hours prior to installation.
 - b. Use F/P Accelerator to speed the work life, set time and cure of the mortar at low material or installation temperatures. Add 1.0 part of F/P Mortar Accelerator to 20-25 parts of Resin (4-5% by weight) of resin. Mix resin and powder BEFORE adding accelerator. Do not add F/P Accelerator direct to resin as this may result in a violent reaction.

6. CLEANUP

- 6.1 Use MEK, xylene or toluene to periodically remove wet mortar from tools and mixing containers. These solvents are hazardous. Read and follow all safety precautions on the supplier's safety data sheets before use.

7. SAFETY PRECAUTIONS

- 7.1 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. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. For all Terms and Conditions of Sale see ergonarmor.com.
- 7.2 Please contact ErgonArmor for specific recommendations at (877) 982-7667 or +1-601-933-3595.

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