

# LITECON FIREPROOF ADHESIVE



## DESCRIPTION

Thin-bed mortar for Autoclaved Aerated Concrete (ACC) Masonry.

**Litecon Fireproof Adhesive** is a powdered product based on Portland cement, controlled granulometry sands, high quality resins and additives. When water is added a homogeneous mix is created, especially designed for placement of joints or bonding of blocks, panels, and sheets of autoclaved aerated concrete; as well as to repair and resurface them. Litecon fireproof Adhesive has high fire resistance properties, complementing AAC's 1hr of fire resistance per inch in thickness.

## APPLICATIONS

To install **autoclaved aerated concrete block walls, sheets, or panels.**

It can also be used to **repair and resurface.**

## ADVANTAGES:

- » 1hr of fire resistance per inch in thickness, complementing AAC's
- » Specially formulated for **panels or blocks**, therefore it complies with stated technical specifications.
- » **Excellent bonding** in autoclaved aerated concrete blocks, sheets, and panels.
- » Up to **10 minute\* correction** time allowing to align pieces during wall construction.
- » **There is no** detachment nor joint chalking.
- » **Free of** crackings or hairline crackings.
- » **Compression strength** of at least **2133 Psi (14.7 Mpa)**.  
It **can also be used** as patch for autoclaved aerated concrete blocks, panels, and sheets.

**\*It depends on the type of application and environmental conditions.**

## RECOMMENDATIONS BEFORE PLACING LITECON ADHESIVE:

1. Before using **LITECON FIREPROOF ADHESIVE**, thoroughly read instructions for its correct preparation and application.
2. We strongly recommend not to add more water than directed, as well as no other foreign element that may interfere with the product quality, and do not follow application techniques other than those herein described.
3. The allowable building areas on which joints, blocks or plates will be placed, should be free of dust, cracks, hairline cracks or loose elements, oils, grease, or any substance preventing bonding and preventing the appropriate performance of **LITECON FIREPROOF ADHESIVE**.
4. The walls layout and allowable building area will be performed according to the axes and elevations fixed by the architectural drawings.

5. Place elements that can be used as a guide to build the wall, such as wooden jumpers and threads, as well as accessories recommended by Litecon.

6. Prepare only enough fresh mix that can be used within the following hour.

7. Cutting and brick course modulation should be performed to achieve a uniform distribution of vertical joints, proper alternating placement of bricks and finish.

8. Pieces should be alternately bonded to achieve a better stability of the wall.

## SPECIFIC RECOMMENDATIONS FOR SPECIAL CLIMATE CONDITIONS

1. Do not work under temperatures higher than **100 °F**.
2. At temperatures higher than **85 °F**, once the **LITECON FIREPROOF ADHESIVE** is prepared, apply it as soon as possible.
3. Do not work at temperatures lower than **40 °F**.

## MIXING

**Manual / Mechanic:**

### FOR BLOCK PLACEMENT

1. In a plastic container, add **3.0 ± 0.1 qts** of water per every HALF a bag of **55 lb LITECON FIREPROOF ADHESIVE**.

### FOR PANELS BONDING

1. In a plastic container, add **2.9 ± 0.1 qts** of water per every HALF a bag of **55 lb LITECON FIREPROOF ADHESIVE**.

2. Gradually add the **LITECON FIREPROOF ADHESIVE** to the water.

3. Mix until getting a homogeneous, lump free paste.

4. Let the mixture stand for 5 minutes, and then mix again and apply.

## APPLICATION

### FOR BLOCK PLACEMENT

1. Before applying the product follow the recommendations included in this document.
2. Apply a thin 1/16" to 1/8" layer of **LITECON FIREPROOF ADHESIVE** with a **LITECON** mason's notched trowel or with a notched trowel on the vertical and horizontal faces of the block.
3. Scratch the surface before bonding the pieces.
4. **LITECON ADHESIVE** should bond the pieces throughout the contact surface, both vertical and horizontal.
5. Using a trowel, recover excess joint material.
6. With a hand level and plumb bob, check that pieces are evenly placed, if necessary, adjust the blocks or plates position.
7. During the first 10 minutes\* you can correct and set the block or the plate.
8. Once you have reached a height higher than 5 ft, use a scaffold or a wooden bench.

### PATCHING/REPAIRING

1. With a metal trowel or mason's float, apply on the surface a minimum layer of the same **LITECON FIREPROOF ADHESIVE** you are using to bond the pieces; if necessary, apply more material in very damaged areas to make sure they are filled.
2. Let dry at least 24 hours before performing other maneuvers.

**\*Depending on the type of application and environmental conditions.**

## TECHNICAL DATA

| Properties  | Value       | Units               |
|---|-------------|---------------------|
| Particle maximum size                                     | 1/32 (#20)  | in (ASTM Mesh)      |
| Minimum compressive strength (28 days)                    | 2133 (14.7) | Psi (MPa)           |
| Minimum splitting tensile strength (28 days) [ASTM C1660] | 71 (0.49)   | Psi (MPa)           |
| Water factor for block placement                          | 23 ± 1      | % in weight         |
| Operating water for block placement                       | 3.0 ± 0.1   | qts/per every ½ bag |
| Water factor for panel bonding                            | 22 ± 1      | % in weight         |
| Operating water for panels bonding                        | 2.9 ± 0.1   | qts/per every ½ bag |
| Mixed density   | 93-106      | Lb /ft <sup>3</sup> |

## WARNING:

Prevent eye and skin contact, wear gloves and safety glasses, do not expose it to dust.

**FIRST AID: EYES.-** Wash with plenty of water for 15 minutes.

**INHALATION.-** Move outside for fresh air. **INGESTION.-** Do not induce vomit and seek immediate medical attention.

**STORAGE.-** Maximum storage time is 6 months in its original pack, indoors, in a fresh, dry, closed place.

## GUARANTEE

Information herein provided is only for orientation purposes, based on tests performed at our facilities. If deemed necessary, the customer should perform their own tests. **LITECON** guarantees that this product is in optimum conditions for its use, free of defects and that it will perform as described in the technical specifications, provided the manufacturer's instructions and recommendations are followed.

**LITECON** is not responsible for indirect damages caused by or resulting from incorrect application, negligence, or non-compliance with guarantee conditions. Products' yield can vary due to each project specific conditions. The customer is responsible for checking them up and determining whether they are correct for each work.

Each and every material is analyzed at the plant before dispatching it, any claim due to faulty material should be checked by a **LITECON** authorized representative and if according to him/her the product is faulty, its responsibility will be limited to replace such material. **LITECON** is not responsible for damages or costs arising from the use or sale of faulty material due to inappropriate transportation or storage conditions.

**LITECON** reserves the right to modify its technical information without prior notice.