

TECHNICAL AND SAFETY DATA SHEET

Updated: 23-08-21

PRODUCT NAME

BRICKAFFIX

DESCRIPTION

Polymeric mixture ready to glue masonry units, in construction walls. Technically designed and formulated to present superior physical and mechanical properties, providing speed, comfort, quality and economy on the job site.

PHYSICOCHEMICAL CHARACTERISTICS

- *Type: Stabilized Polymeric Resin.
- *Composition: Calcium carbonates in different granulometries, water, synthetic resins (polymers) and special additives such as bactericides, stabilizers, waterproofing agents and organic pigments.
- *Consistency: Doughy and textured.
- *Color: Gray.
- Time to rectify: 30 min.
- Time for final coat: 12 hours.
- Drying and curing parameters

12 hours (25 %)
24 hours (50 %)
48 hours (75 %)
72 hours (100 %)

Total cure time is 72 hours but varies depending on weather conditions. Before this time the final resistance is not guaranteed.

Brickaffix shows initial resistance to the elements after 8 hours of application.
Application temperature: +10°C ÷ +50°C

DECLARATION OF BENEFITS

Density: 2.0 kg / mt³
pH: 11 + 0.5
Viscosity: 40,000 ± 10.000 Cp, NDJ-1 Analog Viscometer, # 4 needle at 6 rpm.
Compressive Strength: > 6 N/mm²
Bond Strength (adhesion): 0.15 N / mm²
Water absorption:
C ≤ 0,4 Kg/(m².min^{0.5}). (3.3%)
Reaction to Fire: A1
Water Vapor Permeability: 15/35
Thermal conductivity: 1.11 w / m * k
Chloride Ion Content: < 0.02%

APPLICATIONS

- ✓ Clay bricks, concrete blocks, prefabricated concrete slabs, block, clay tiles and fiber cement, tear ducts, stoneware and veneers.
- ✓ Inside and outside walls that are going to be plastering
- ✓ As a filling of perforations, cracks or fissures of maximum 3mm on concrete, plaster or fiber cement surfaces.
- ✓ Excellent adhesion on elements such as steel, ceramic, wood, fiber-cement, natural or artificial stones.

PROPERTIES AND BENEFITS

- ✓ Ready to use.
- ✓ Does not need mixing.
- ✓ Cleaner work without waste.
- ✓ Application speed up to 3 times faster.
- ✓ Higher drying speed.
- ✓ Reduction cost per m² of masonry.
- ✓ Reduction in the dead load.
- ✓ Ease transport and logistics at work.
- ✓ It guarantees the quality of the masonry.
- ✓ inventory control on site.
- ✓ Greater resistance to traction, bending and compression.
- ✓ Greater adherence and elasticity.
- ✓ It is not flammable.
- ✓ Protection against humidity.
- ✓ Protection against the appearance of efflorescence, bacteria and fungi.
- ✓ It favors the non-appearance of cracks and faults in the masonry.
- ✓ Ecologically correct.

APLICACION

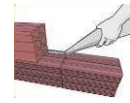
The base must be perfectly level. it is recommended that the first course be installed with conventional mix in order to correct the existing deficiencies in the floor.

1. Massage the bag in order to homogenize the content, then perform a cut following the indicated line.

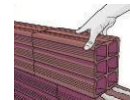


2. Firmly press the contents from the bottom of the bag and apply 2 parallel and continuous lines of 1.5 cm diameter each on top of the brick or block. It is not necessary to apply Brickaffix on the verticals, as it is a polymeric product and therefore more flexible, it has a greater capacity to accommodate stresses

and absorb loads.



3. Place the brick or block ensuring the level and plumb of the wall, leaving a lateral space of 3 to 5 mm between pieces to support expansion. This space will be filled with the plaster mortar.

**PERFORMANCE**

Block height (cm)	Consumption Kg/mt2 Aprox.
6	5,25
9	3,67
10	3,35
11,5	3
14	2,5
19	2
30	1.45

PRESENTATION

10 kg cardboard box includes four (4)Kg bags.

EXPIRY AND STORAGE

- * 24 months from the date of manufacture under proper storage conditions.
- * Keep Brickaffix in a dry and ventilated place, away from the floor and from elements and sources of heat, between +5°C and +25°C.
- * Can be stacked with a maximum of 6 boxes.
- * After opening the bag, if there is any product left in the bag, seal it and you can use it for up to 30 days.

RECOMMENDATIONS

*The use of Brickaffix is limited to the characteristics set out in the technical sheet, any different use may vary the results.

* Do not add water, sand or other material, as it may alter the specifications.

* The pieces used must be free of dust, dry or slightly damp and have a uniform size.

* Differences of more than 4 mm in height between pieces can affect the result in leveling and alignment at the time of application. (correct with wedges or conventional mixing.)

* In case of losing level it is recommended to make a row with conventional mix and continue with brickaffix.

* In case of removing the pieces after their installation, remove the applied mass and make a new application to avoid adhesion problems.

* The wedge to the upper beam is recommended to be done using the traditional mix in order to achieve a perfect leveling.

*In case of rain, after applying Brickaffix, cover the surface with a plastic.

PRECAUTIONS

* Do not use with refractory bricks.

* Do not apply on wet pieces and avoid the direct presence of water on the wall, this prevents final adhesion.

* Do not use in second-hand bricks, demolition bricks or of different qualities and sizes, it makes it difficult to level and align them during installation.

* Do not use on stoves, ovens, grills or fireplaces.

SECURITY MEASURES

* Wash your hands after use.

* Avoid contact with the skin, eyes and mucous membranes, if it occurs wash with plenty of clean water.

* During the application the use of respiratory protection, gloves and glasses is recommended.

* Keep out of the reach of children.

RISK IDENTIFICATION

HEALTH RISK

0 = It is not risky

FLAMMABILITY RISK

0 = Does not burn

RISK FOR REACTIVITY

0 = Stable



WARRANTY

BRICKA S.A.S. guarantees the quality of its products, but is not responsible for the results obtained when the instructions and recommendations specified in the technical documentation sheet of the product are not complied with, since the correct use and application of the product are the responsibility of the installer

MADE BY

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Tariff Code: 32.14.10.10.00

ENVIRONMENTALLY FRIENDLY

* Compared to the traditional method, for every m² of masonry installed with BRICKAffix, the emission of CO² into the environment is reduced.

* We eliminate the consumption of electricity, river sand, lime and water on site.

* No emission of particulate matter is generated into the atmosphere.

AWARDS AND LABORATORY TESTS.

* CE certificate: UNE-EN 998-1: 2010. Specifications for masonry mortars.

* Product awarded in CAMACOL (Colombian Chamber of Construction) Colombia with the first place in Innovation 2020

* Compliance with ASTM C1314 (NTC 3495) Test methods to determine compressive strength in masonry walls.

* Compliance with ASTM E519.93 (NTC 4925) Test methods for diagonal tensile strength in masonry walls.

* Compliance with the Principles of Structural Engineering in seismic zones in accordance with NSR10 in tests carried out on a vibrating table, Universidad EAFIT Medellín, Antioquia, Colombia.