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| TECHNICAL SHEET | CEMENT ADHESIVE | <br>EN 12004-1: 2017<br><b>C2TES1</b> | COLLES A CARRELAGE<br><br>C2<br>S1<br>E<br>N°: 305 MC 599<br><a href="https://evaluation.cstb.fr">https://evaluation.cstb.fr</a> |
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Revision: 05.01-20/01/25

# Adimar Flexible

The **ADIMAR FLEXIBLE** adhesive for ceramic tiles manufactured by **AYMAR S.A.U.** is an improved cementitious adhesive with reduced slippage, long open time and deformable type **C2TES1** in accordance with the EN 12004:2017 standard, designed with marble aggregates, cement and special additives that give it adhesion, sliding and water retention properties ideal for the installation of ceramic pieces.

## Composition

Composed of **crushed marble aggregates** used in construction, **Portland cement** and **both organic and inorganic** additives that give it better characteristics in adhesion, sliding and transverse deformation.

## Field of application

The **ADIMAR FLEXIBLE** has ideal characteristics for the installation of ceramic, marble, stone or similar pieces, small and large format, absorbent or non-absorbent, on plaster supports of mortar, concrete, large format brick, marble, terrazzo, prefabricated blocks, plaster, plasterboard, anhydrite, etc. In outdoor applications (façade cladding, etc.) and indoors (large surface pavements, etc.). Thanks to its flexibility, it is able to resist thermal shocks and small differential movements produced by the substrate, making it suitable for underfloor heating and applications on floors with heavy traffic, even being suitable for immersion, for example swimming pools. Suitable for overlaying on old stoneware wall and floor tiles.

## Instructions for use

- **Preparation of the support:** The substrate on which the application is to be carried out must be resistant, dry, level, free of dust and free of traces of release agent.
- **Preparation of the mixture:** add 7.5-8.0 l of water per bag and mix manually or mechanically, with a low-speed electric whisk, to eliminate any possible lumps in the paste, let the mixture rest for 5 minutes and make a brief kneading.
- **Application of the paste:** Apply the product on the substrate using a serrated trowel, to regularize the thickness, in an extension maximum of 2 m<sup>2</sup> making enough pressure so that the minimum contact with the cement is 80%. Place the tiles by pressing them until the grooves are flattened and the piece is properly solidized with the help of a rubber mallet. It is necessary to check, with your fingertips, periodically that the adhesive has not formed a film on its surface, if this happens, the product must be combed again, taking into account that we are still in the margin of the open time of the product (if the time period since its application has exceeded the aforementioned open time, the adhesive must be removed and reapplied).

## Recommendations for use

- The application temperature must be between 5 °C and 35 °C on the substrate.
- Do not apply on substrates with residual humidity > 5%.
- Check the planimetry of the support with a 2 m ruler, verifying that the deviations must be less than 5 mm. In the event of higher deviations, they must be regularized before installation.
- No aplicar si se prevén heladas o en pleno sol.
- Es recomendable dejar un mínimo de junta entre azulejos de 2mm aplicando en ella la **JUNTA UNIVERSAL 0/15 ADIMAR** o la **JUNTA TÉCNICA 0/16**.
- On very absorbent substrates, it is advisable to moisten it and wait until it is dry.
- Maximum recommended thickness: 10 mm.
- In applications on ceramic flooring, it is recommended to remove poorly adhered pieces, perform surface sanding and double gluing.
- Always double glue for large format pieces (> 1200cm<sup>2</sup>) or high weight and on supports with radiant heating, which must be turned off 24 hours before application.
- On deformable supports (plasterboard) the rigidity of the partition must be checked and that the residual humidity is < 3%. If the substrate is weak, apply a surface hardening treatment using a primer.  
Do not apply to dead plasters that have received a thin layer of final plaster.
- Cold rooms should remain turned off until the adhesive cures is complete, a minimum of 7 days depending on environmental conditions.
- If used in swimming pools, it can be refilled after 7 days after application.
- For large-format ceramics (the longest side of the tile > 1.5m) or for ceramic sheets (3.6mx1.5m) apply **ADIMAR SUPERFLEX**.
- On Anhydrite supports, the prior application of the adhesion promoter **FIXMAR PRIMER GR** is necessary.


### In façade cladding:

- Dejar Leave a minimum of 5 mm joint applying the ADIMAR 0/15 UNIVERSAL JOINT or the 0/16 TECHNICAL JOINT.
- Make expansion joints every 30 m<sup>2</sup> in large formats or every 60 m<sup>2</sup> in small formats, as well as perimeter joints in cornices, slab projections and respect the structural joints of the building.
- To prevent water from entering the grip layer, which would favor detachment in the event of frost, protect the upper edges of the cladding with metal profiles, flashings, etc.
- Do not apply on tiles with a high coefficient of expansion.
- For sizes over 2400 cm<sup>2</sup> or weights over 40 Kg/m<sup>2</sup>, the use of mechanical anchors or safety staples and double gluing is essential.
- On ceramic overlays, remove poorly adhered pieces and fill in the gaps the day before application. Make sure that the ceramic is free of grease or waxes by sanding it if necessary.

## Yields

| Destiny                                      | Surface (cm <sup>2</sup> ) | Plain measurements (mm) | Anchoring Mode | Consumption (kg/m <sup>2</sup> ) |
|----------------------------------------------|----------------------------|-------------------------|----------------|----------------------------------|
| Interior                                     | 50 < S ≤ 300               | U6 (6x6x6)              | Simple         | 3,5                              |
|                                              | 300 < S ≤ 1200             | U9 (9x9x9)              | Double         | 6                                |
|                                              | 1200 < S ≤ 2200            | U9 (9x9x9)              | Double         | 6                                |
|                                              | 2200 < S ≤ 10000           | Half moon (20x10x8)     | Double         | 7                                |
| Outside                                      | 500 < S ≤ 3000             | U6 (6x6x6)              | Double         | 5                                |
|                                              | 300 < S ≤ 1200             | U9 (9x9x9)              | Double         | 6                                |
|                                              | 1200 < S ≤ 3600            | Half moon (20x10x8)     | Double         | 7                                |
| <b>Average yield: 5-5,5 Kg/m<sup>2</sup></b> |                            |                         |                |                                  |

## Technical data

|                                           |                                                                                                                                                                          |                                                                            |                                                                                                                                                           |  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Product                                   | Type                                                                                                                                                                     | C2TES1                                                                     |                                                                                                                                                           |  |
|                                           | Color                                                                                                                                                                    | White/Grey                                                                 |                                                                                                                                                           |  |
| Application                               | Kneading water                                                                                                                                                           | 32%                                                                        |                                                                                                                                                           |  |
|                                           | Mixing Ratio                                                                                                                                                             | 7.5-8.0 l per 25Kg bag                                                     |                                                                                                                                                           |  |
|                                           | Maturation Time                                                                                                                                                          | 5'                                                                         |                                                                                                                                                           |  |
|                                           | Open Time                                                                                                                                                                | 30'                                                                        | EN 12004-2:2017 section. 8.1                                                                                                                              |  |
|                                           | Tiempo de ajuste                                                                                                                                                         | 40'                                                                        |                                                                                                                                                           |  |
|                                           | Slippage                                                                                                                                                                 | < 0,5 mm                                                                   | EN 12004-2:2017 section.8.2                                                                                                                               |  |
|                                           | Minimum thickness                                                                                                                                                        | 6 mm                                                                       |                                                                                                                                                           |  |
|                                           | Grouting at:                                                                                                                                                             | 24h                                                                        |                                                                                                                                                           |  |
|                                           | Walkable at:                                                                                                                                                             | 24h (light traffic)                                                        |                                                                                                                                                           |  |
| Final yields                              | Initial adhesion                                                                                                                                                         | >1,0N/mm <sup>2</sup>                                                      | EN 12004-2:2017 section. 8.3                                                                                                                              |  |
|                                           | Adhesion after immersion in water                                                                                                                                        | >1,0 N/mm <sup>2</sup>                                                     |                                                                                                                                                           |  |
|                                           | Adhesion after heat aging                                                                                                                                                | >1,0 N/mm <sup>2</sup>                                                     |                                                                                                                                                           |  |
|                                           | Adhesion after freeze-thaw cycles                                                                                                                                        | >1,0 N/mm <sup>2</sup>                                                     |                                                                                                                                                           |  |
|                                           | Open Time Adhesion, 20'                                                                                                                                                  | >0,5 N/mm <sup>2</sup>                                                     |                                                                                                                                                           |  |
|                                           | Open time adhesion, 30'                                                                                                                                                  | >0,5 N/mm <sup>2</sup>                                                     |                                                                                                                                                           |  |
|                                           | Transverse deformation                                                                                                                                                   | 2,5 mm > d < 5 mm                                                          | EN 12004-2:2017 section. 8.6                                                                                                                              |  |
|                                           | Shear adhesion after heat                                                                                                                                                | 1,0 N/mm <sup>2</sup>                                                      | DT11-01Rev. 00 section. 2.2.5.4 Colles à carrelage. CSTB                                                                                                  |  |
| Volatile Organic Compound (VOC) Emissions |                                                                                      |                                                                            | <b>Class A+</b> according to the limits established in Décret n° 2011-321 of France. The scale ranges from A+ (Emissions very low) to C (High Emissions). |  |
|                                           | <b>EC1 PLUS class</b> according to emission limits of the rating <b>EMICODE</b> . The scale ranges from EC1 PLUS (the strictest emission limits) to EC2 (low emissions). |                                                                            |                                                                                                                                                           |  |
| Storage                                   | 12 months                                                                                                                                                                | Store with the container closed and in a covered, dry and ventilated place |                                                                                                                                                           |  |
| Presentation                              | Bags of 25 kg                                                                                                                                                            |                                                                            |                                                                                                                                                           |  |
| HS code                                   | 38245090                                                                                                                                                                 |                                                                            |                                                                                                                                                           |  |

Classification according to the standard EN 12004-1:2017

ADIMAR FLEXIBLE

CEMENT ADHESIVE

## MADE IN SPAIN

For safety precautions in the use, storage and disposal of the product, please refer to the Safety Data Sheet available on the website [www.aymarsa.es](http://www.aymarsa.es)

**NOTE:** The information contained in this technical sheet is based on our experience and tests carried out in specialized laboratories. The characteristics of the resulting product will depend on the correct preparation and application on site by the user. If these conditions are not met, the characteristics indicated above will not be achieved.



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