

LENA 2 FLEX

FLEXIBLE CEMENTITIOUS ADHESIVE FOR MEDIUM-SIZED CERAMICS

1. PRODUCT DESCRIPTION

LENA 2 Flex is a cement-based adhesive with an extended open-time composed of hydraulic binders, limestone and silica aggregates and additives. Available in white and grey.

LENA 2 Flex is supplied in 25 kg bags and packed in plastic pallets of 60 bags. Provided that it is kept in its original packaging, the product has a shelf life of 12 months under storage conditions in which it is protected from high temperatures and humidity.



2. FIELD OF USE

LENA 2 Flex is suitable for fixing medium-sized (up to 60x60cm) porous and absorbent parts on floors and interior walls, as well as small (up to 30x30cm) stoneware and porcelain stoneware tiles on interior floors.

This adhesive should only be used on cement-based surfaces (plasters, concrete, and screeds).

- Outdoors:**

Applying ceramic tiles to facades (with a maximum height of 6m) with maximum dimensions of 30x15 cm (when double-buttered);
Applying ceramic tiles with a maximum size of 30x30 cm to outdoor floors;

- Indoors:**

Fixing tiles (maximum dimensions of 60x60 cm) on cement-based surfaces (floors and/or walls);
Fixing tiles with maximum dimensions of 30x30 cm to plasterboard walls.

3. PRODUCT CHARACTERISTICS

ADHESIVE PASTE	Average Values*	Reference Standard	HARDENED ADHESIVE	Average Values*	Reference Standard
Application temperatures	+5°C to 30°C	-	Reaction to fire	Class E (WFT)	EN 12004-1
Mixing water	24 %	-	Initial adhesion	≥ 1.0 N/mm ²	EN 12004-2
Adjusting time	20 minutes	-	Adhesion after heat activation	≥ 1.0 N/mm ²	EN 12004-2
Working time once mixed	2 hours	-	Adhesion after immersion in water	≥ 1.0 N/mm ²	EN 12004-2
Wait time prior to grouting	24 hours	-	Adhesion after freeze-thaw cycles	≥ 1.0 N/mm ²	EN 12004-2
Cure time	7 days	-	Open time (after 30 min)	≥ 0.5 N/mm ²	EN 12004-2
Determination of slip	≤ 0.5 mm	EN 12004-2	Operating temperature	-30°C to +80°C	-
Guideline usage	Single spread: 4kg/m ² Double spread: 6kg/m ²	-			

* Results obtained in tests carried out under standard conditions, which may vary depending on the conditions of use.

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4. APPLICATION RECOMENDATION

- **Preparing surfaces:**

Surfaces must be free of dust, release agents and disintegrating or unstable materials, efflorescence, or any other materials that may impair the adhesion of the cement-based adhesive. Surfaces must also be properly smoothed.

If used on highly absorbent vertical surfaces or under unfavourable heat or wind conditions, surfaces must be moistened prior to application of the cement-based adhesive.

- **Preparing the cement-based adhesive:**

LENA 2 Flex should – preferably – be mixed mechanically, using a low-speed electric mixer, with 6 litres of water per 25 kg bag, until it produces a soft, consistent, lump-free paste.

- **How to use:**

Apply **LENA 2 Flex** on the surface - which should be suitable for the work required and in terms of temperature and humidity - pressing down where appropriate. Subsequently, even out the surface with a brush or notched trowel. Push the part you would like to attach onto the adhesive, pressing down it until the cement-based adhesive is completely flattened, tamping down with a rubber mallet. The layer of cement-based adhesive should be no thicker than 7 mm once tamped.

The parts to be glued must be dry, free of dust and release agents. Provide spaces for grout joints between parts, which must be filled with mortars able to absorb dimensional variations between the parts (see **LENA 310 Cor**).

5. FURTHER ADVICE

- Water mixed with the mortar should not contain any impurities (clay, organic matter), and should preferably be drinking water;
- Do not apply product that has been open for longer than the open time stated, and the product should subsequently be softened by adding water;
- Do not add any other products to the mixture, and apply the cement-based adhesive as presented in its original packaging and prepared according to recommendations;
- Should you be unsure of the applicability or suitability of the product, especially for rehabilitations or unusual applications, we advise getting in touch with our Technical Services prior to using the product.

6. HEALTH AND SAFETY

Product Safety Data Sheet available for consultation at www.argatecnic.pt or upon request from our Sales Services.

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7. TECHNICAL ASSISTANCE

For technical assistance and sales information, contact

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8. CE MARKING

 YEAR: 04	LENA 2 Flex EN 12004-1 C2 TE - Cement-based adhesive for interiors and exteriors, with extended open-time and reduced slip Performance declaration PDO n. 102.003 (gray) and PDO n.102.004 (White) Laboratory no. 0855 notified
LENARGATECNIC, LDA Rua dos Castanheiros, nº 11 Boa Vista 2420-415 LEIRIA, Portugal	

The information, recommendations and technical characteristics presented in this Technical Data Sheet are provided in good faith and are based on the current knowledge we have of the product. These may be altered without prior notice. Our responsibility is limited to guaranteeing the quality of the product provided according to the physical-chemical characterisation presented in this Technical Data Sheet. We cannot make any guarantees concerning its correct application, even if inferred from these instructions or contained within oral or written recommendations.



Revised in September 2022