

LENA 3 FLEX PRO

DEFORMABLE CEMENTITIOUS ADHESIVE FOR LARGE SIZE CERAMICS AND NATURAL STONE

1. PRODUCT DESCRIPTION

LENA 3 Flex Pro is a mouldable cement-based adhesive with reduced slip and an extended open-time, composed of hydraulic binders, limestone and silica aggregates and additives. Available in white and grey.

LENA 3 Flex Pro 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. HOW TO USE

LENA 3 Flex Pro is suitable for use when fixing tiles (extruded stoneware and porcelain) and natural stone, as long as it is stable, on floors and interior and exterior walls, on cement-based and non-cement-based surfaces, specifically tiles, paint, OSB panels, and plasterboard.

Outdoors:

- Applying ceramic tiles and natural stone to facades with a maximum height of 60x40 and a thickness of 2cm (when double-buttered);
- Fixing ceramic tiles to floors, specifically on screeds and for waterproofing purposes (LENA 890/891/893), and pre-existing tiles (glazed tiles should be previously scarified) with maximum dimensions of 60x60 cm (when double-buttered);
- Fixing tiles and natural stone with a maximum dimension of 60x30 cm to pools;

Indoors:

- Fixing tiles and natural stone with a maximum dimension of 60x60 cm to heated floors;
- Fixing tiles with maximum dimensions of 120x60 cm to cement-based surfaces (flooring and/or wall).
- Fixing tiles with maximum dimensions of 60x60 cm to plasterboard walls.

NOTE: On painted surfaces, whether interior or exterior, ensure that the paint is fully adherent, otherwise it must be removed. Users are advised to make a few cuts in the paint so as to create areas of direct contact with the cement-based surface.

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	26 – 28%	-	Initial adhesion	≥ 1.0 N/mm ²	EN 12004-2
Adjusting time	30 minutes	-	Adhesion after heat activation	≥ 1.0 N/mm ²	EN 12004-2
Working time once mixed	3 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	Transverse deformation	≥ 2.5 mm and < 5 mm	EN 12004-2
Guideline usage	Single spread: 4kg/m ² Double spread: 6kg/m ²	-	Operating temperature	-40°C to +90°C	-

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

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4. APPLICATION RECOMMENDATIONS

- **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 3 Flex Pro should – preferably – be mixed mechanically, using a low-speed electric mixer, with 6.5 - 7.0 litres of water per 25 kg bag, until it produces a soft, consistent, lump-free paste.

- **How to use:**

Apply **LENA 3 Flex Pro** 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. For larger parts, or should you want to achieve greater efficiency, proceed with double buttering the adhesive.

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

- A 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 3 Flex Pro EN 12004-1 C2 TE S1 - Cement-based, mouldable adhesive for interiors and exteriors, with extended open-time and reduced slip Performance declaration PDO n.103.002 (grey) and PDO n.103.001 (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.



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