

LENA 893 ONE

MONOCOMPONENT FLEXIBLE WATERPROOFING MORTAR

1. PRODUCT DESCRIPTION

IMPERTEC 893 ONE is a flexible, monocomponent, cement-based waterproofing mortar with complete resistance to water composed of mixed binders, limestone and silica aggregates, additives.

IMPERTEC 893 ONE is supplied in 20 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

IMPERTEC 893 ONE is suitable for waterproofing balconies, terraces, bathrooms, swimming pools and underground constructions (basement walls and foundations). It adheres to any type of cement-based surface (cement plaster, concrete). Also applicable on tile or stone, except in swimming pools or water tanks. Resistant to UV rays, although it must be coated in order to guarantee protection and durability (especially in areas that can be transited in).

3. PRODUCT CHARACTERISTICS

ADHESIVE POWDER	Average values*	Reference Standard
Appearance	Grey	-
Density	1100 kg/m ³	-
Granulometry	Fine (< 0,2 mm)	-

ADHESIVE PASTE	Average values*	Reference Standard
Application temperatures	+5°C to 30°C	-
Mixing water	21%	-
Working time once mixed	45-60 minutes	-
Waiting time for ceramic application	48 hours	-
Usage	3.0 kg/m ²	-

HARDENED ADHESIVE	Average values*	Reference Standard
Initial tensile adhesive strength	≥ 0.5 N/mm ²	EN 14891
Adhesive tension after immersion in water	≥ 0.5 N/mm ²	EN 14891
Adhesive tension after heat action	≥ 0.5 N/mm ²	EN 14891
Adhesive tension after freeze-thaw cycles	≥ 0.5 N/mm ²	EN 14891
Adhesive tension after contact with lime water	≥ 0.5 N/mm ²	EN 14891
Fissure Resistance	≥ 0.75 mm	EN 14891
Impermeability (Positive pressure ≤5 bar)	No penetration	EN 14891

* 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 should be properly smoothed, cleaned, and degreased. **IMPERTEC 893 ONE** should only be applied once dust, efflorescences, release agents, grout leakage, and rust has been completely removed. Absorbent surfaces must be previously moistened with water.

The surface should be levelled with the continuous application of **IMPERTEC 893 ONE** mortar, ensuring no significant variations in thickness.

When applied on tile or stone surfaces, previously apply a 1 to 2 mm coating of **LENA 3 Flex Pro** cement-based adhesive so as to even out any surface irregularities and increase adhesion.

Proceed with applying the product to specific points, such as expansion joints and finishing areas where the floor meets the wall with **IMPERTEC band** - mouldable waterproofing strip.

• Preparing the mortar:

Mix the product mechanically with 4.2 litres of water per 20 kg bag, using an electric mixer on low speed until it forms a smooth, consistent paste with no lumps.

• How to use:

Apply using a metal trowel in two layers, within which an alkali-resistant fibreglass mesh - **IMPERTEC 90gr/m²** mesh - must be embedded. Apply the first layer of **IMPERTEC 893 ONE** and place the mesh on the layer while it is still fresh. Once hardened (about 3 to 5h) apply a second perpendicular layer. The mesh should always be placed between two layers of product and never directly on the surface. **IMPERTEC 893 ONE** can also be painted or rolled on, with at least three coats required when this is the case. The final thickness of **IMPERTEC 893 ONE** should be no less than 2mm.

Wait 2 days prior to proceeding with applying tiles, using flexible cement-based adhesive **ARGATECNIC** for the purpose.

When applying to swimming pools, wait at least 7 days post application to fill with water.

In constructive cases not mentioned in this technical document, we recommend getting in touch with our Technical Services prior to use of the product.

5. RESTRICTIONS

Do not apply on bituminous cladding.

6. FURTHER ADVICE

- Pre-moisten the surface to be coated when working in very hot weather;
- Following application, the necessary care must be taken to protect the waterproofing mortar for at least the first 24 to 48 hours;
- 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 started to set or softened mortars

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- Do not add any other products to the mortar, and apply the product as presented in its original packaging and mixed according to recommendations;

7. HEALTH AND SAFETY

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

8. TECHNICAL ASSISTANCE

For technical assistance and sales information, contact:

LENARGATECNIC, LDA.

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9. CE MARKING

 YEAR: 20	IMPERTEC 893 One EN 14891 Liquid-applied waterproofing cementitious product (CM) Performance declaration no. 893 PDO 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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