

Sheet **RC-39****Calce-MONOFLEX****Mineral Waterproofing****One-component plasto-mineral sheath**

DESCRIPTION: Lime MONOFLEX is a dry single-component mixture, to be mixed with demineralized water in fluid consistency, based on formulated lime binders and aggregates with fine and controlled grain size, lightened aggregates, containing artificial and natural pozzolans, microfibers and organic resins, special additives. It comes in clay color. It represents an innovative response to the waterproofing problems present on all the structures guaranteeing waterproofing in the time, water repellency and adhesion to the substrate.



FIELDS OF USE: Waterproofing of structures against the ground and flat to be paved or walls; for waterproofing applications of balconies, terraces, before laying ceramic coverings. Flexible coating of plasters, screeds, micro-cracked surfaces and prefabricated structures.

MEDIA:

- Cementitious screeds, including self-levelling
- Concrete or seasoned plasters
- Cementitious and lime plasters
- Overlay on existing floors
- Clay supports

DO NOT APPLY ON:

- Thicknesses greater than 2 mm per coat
- Dusty, inconsistent, degraded surfaces, with efflorescence or traces of disarming oil
- Standing water surfaces
- Media other than those indicated

ADVANTAGES:

- Good machinability;
- It has an innovative natural cement binder, aluminous sulphur cement (ternary system) for an improvement in the durability and stability of the mixture, it can be used in coastal areas and in the restoration of structures degraded by saline aggression;
- Excellent adhesion to the most commonly used substrates in construction (concrete, stone, brick, steel, wood);
- Good dimensional stability with very low hygrometric shrinkage;
- Good mechanical resistance to compression, bending and tension;
- Highly deformable;
- Good workability even overhead, without detachment or bleeding.

APPLICATION:

PREPARATION OF THE SUBSTRATES: The substrate must be healthy, cohesive, clean of dust and any inconsistent or detached parts. Regularize all roughness that can cause difficulties in application and variations in thickness that are too strong. The substrate must also be cleaned of efflorescence, traces of disarming oils and rust. Demolishment and restoration of deteriorated parts. If the surfaces to be covered are particularly absorbent, moisten with water beforehand. After application, in particularly dry, hot or ventilated climates, it is advisable to protect the surface from rapid evaporation with damp cloths or shade.

APPLICATION: Mix MONOFLEX Lime with $5.8 \div 6.5$ lt of clean water per 25 kg bag (25.5% of weight). Mix with a drill at low speed (120/300 rpm) until a homogeneous mixture is obtained, avoiding the incorporation of air into the mixture. Apply with a spatula in a maximum thickness of 2 mm per layer. On surfaces larger than 5 square meters and in correspondence with cracks or on particularly deformable structures, insert a glass or synthetic fiber mesh with a square mesh (e.g.: 4x4 mm) in the thickness of Calce MONOFLEX In correspondence with expansion joints, wall-to-wall and wall-to-floor fittings, pipes and drains in bathrooms, shower cubicles, apply the rubberized fabric band on a product that is still fresh Apply the second coat to harden the first. Take care of the maturation of the product during drying, possibly by spraying water mist on its surface. Can be covered after at least 4 days.

TECHNICAL DATA:

Appearance/Color	Clay-colored powder	Packs	25 kg bags
Chemical base	Lime FL, CSA, pozzolans, selected aggregates.	Grain size	/ max: 0.4 mm
Specific weight of the dough	1.5 ± 0.1 kg/L	Consumption	~ 1.6 kg/sqm per mm of thickness.
Resistance to bending	7 days ≥ 2 MPa 28 days ≥ 3.5 MPa	Resistance to compression	7 days ≥ 3 MPa 28 days ≥ 8 MPa
Ion content chloride	0,012 %	adhesion	≥ 1 N/mm ²
Resistance to water in push	: 1.5 ATM* (test waterproofing dopo 28 gg)	Counterthrust water resistance	1 ATM* (test waterproofing dopo 28 days)
Ion input chloride	< 0.01 %	Hazardous substances (Chromium VI)	~ 1 ppm
Absorption	0.3 kg m-2 h-0.5	Reference	EN 14891:2012

*These values are derived from laboratory tests in a conditioned environment and may be significantly modified by the conditions of installation.

STORAGE: 6/12 months from the date of production, if stored correctly in the original intact sealed packaging, in a cool and dry environment.

APPLICATION NOTES:

WARNINGS AND RECOMMENDATIONS Operating temperature: from +5°C to +30°C; In summer, mix with cold water; Do not apply in full sun on hot surfaces and in the presence of strong winds; Do not apply on frozen substrates, in the process of thawing, or with a risk of frost in the following 24 hours Moisten the surfaces to be treated with water beforehand, if they are very absorbent Protect from rain in the first 24/48 hours after application Protect from direct sunlight If you work with high temperatures, keep the packages away from the sun before use; After use, it is advisable to wash work tools with water before the mortar sets; Do not add aggregates, latexes, or cement to the product.

SAFETY RULES: Precautions For information and advice on safety standards and for the use and storage of chemical products, it is recommended to refer to the most recent Safety Data Sheet, containing physical, toxicological and other related safety data. Your eyes and hands should be protected. In case of accidental contact with skin or eyes, wash thoroughly with water.

ECOLOGY: Do not disperse powdered product and empty containers into the environment. If disposed of, it can be recycled as inert.

LEGAL NOTICE: The technical advice relating to the use, which we provide verbally or in writing as assistance to the customer or the installer based on our experience, corresponding to the current state of scientific and practical knowledge, is not binding and does not demonstrate any contractual legal relationship or ancillary obligation with the contract of sale. They do not relieve the purchaser of their responsibility to personally test our products as to their suitability for their intended use. Otherwise, our terms and conditions apply. The content of this sheet is considered binding for the above for the purposes of the truthfulness of the content, only if accompanied by a special stamp and countersignature affixed to our headquarters and by personnel delegated to the above. Discrepancies from the aforementioned original in terms of content and/or use shall not imply any liability on the part of Heres. The customer is also required to verify that this sheet AND ANY VALUES REPORTED are valid for the batch of product of interest and are not outdated as they are replaced by subsequent editions AND/OR NEW FORMULATIONS OF THE PRODUCT. If in doubt, contact our Technical Department in advance.

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SPECIFICATIONS: Waterproofing of masonry structures, including against the ground, balconies (including paved), shower cubicles, and in general of absorbent and non-absorbent substrates, provided that they are stable and consistent by applying mineral waterproofing in a highly flexible fibre-reinforced one-component plasto-mineral sheath, formulated on the basis of formulated lime binders and aggregates with a fine and controlled grain size, lightened aggregates, containing artificial and natural pozzolans, microfibers and organic resins, special additives, to be mixed with demineralized water in fluid consistency. It comes in clay color, (such as the MONOFLEX Lime by Heres). The membrane can be covered directly with a coating.