



ICC Premiscelati

REPAIR MUR

**ONE-COMPONENT FIBER-REINFORCED MORTAR FOR
MASONRY REINFORCEMENT AND ANTI-TOPPLING AND ANTI-
SPALLING SYSTEMS.**



Description:

Speciale Special cement-based mortar designed to reinforce and prevent overturning of traditional masonry, whether load-bearing or partition walls. **REPAIR MUR** has excellent adhesion to all absorbent masonry surfaces such as brick, stone, rock, tuff, concrete, and mixed masonry. **REPAIR MUR** is a single-component powder product, composed of special hydraulic binders, selected siliceous and carbonatic aggregates, lightweight aggregates, synthetic fibers, and specific additives to improve adhesion on difficult surfaces and reduce elastic modulus values. REPAIR MUR is thixotropic and does not drip; thanks to its excellent mechanical performance, it can be applied both vertically and horizontally. **REPAIR MUR** is vapor-permeable.

REPAIR MUR is an R2 class mortar compliant with EN 1504-3 regulations; it is a general-purpose mortar for internal and external plastering of CSIV class compliant with EN 998-1 regulations; it is a guaranteed performance general-purpose masonry mortar of M20 class compliant with **EN 998-2** regulations.

Application fields:

Restoration and reinforcement of masonry surfaces both indoors and outdoors. Construction of low elastic modulus seismic walls. By inserting a specific fiberglass reinforcement mesh, **REPAIR MUR** allows the creation of anti-overturning systems, improving the stability of masonry infills, and creating anti-punching systems through surface reinforcement of slabs.

Non-structural restoration of concrete in civil or industrial buildings, bridges, tunnels, and various infrastructures. Plastering of walls, reconstruction of corners and edges, and joint regrouting.

Preparation of substrates:

Per Using a sandblaster or high-pressure water cleaner, completely remove old plaster, detached or crumbling parts, any traces of efflorescence, dust, plaster, and general dirt. Check that the joints between the elements that make up the masonry are filled up to the surface; otherwise, after thorough cleaning and wetting, you can use REPAIR MUR to fill and reseal them (wait for the product to harden before

continuing the application). Thoroughly wet the surfaces and, in case of weak surfaces, consider applying a coat of ICC SAND GRIP or ICC GRIP primer with a paint roller. Do not apply **REPAIR MUR** on standing water; if necessary, dry the surface with rags or compressed air jets.

Preparation of mortar:

Mix **REPAIR MUR** using a low-speed mixer with a whisk. In a clean container, add about 5.75 - 6 liters of clean water per 25 kg bag, start mixing slowly and gradually add the powder. Mix for about 3 minutes, making sure to use the entire bag to achieve optimal distribution of the aggregates in the product. Manual or mixer mixing should be avoided. After mixing with water, the mortar must be used within 90 minutes*.

Application:

REPAIR MUR can be applied to previously prepared and moistened surfaces, either by hand using a traditional spatula or trowel, or mechanically using a plastering machine. **REPAIR MUR** does not require a scratch coat and should always be applied in at least two coats, with thicknesses ranging from 5 to 20 mm, inserting the reinforcement mesh before the final coat. Apply the first coat of product, compacting it well with a trowel so that it adheres perfectly to the substrate. If more coats are required (to be applied within 24 hours), do not smooth the surface, wait for the product to harden (approximately 6 hours), and then apply the additional coat. If no further leveling is needed, lay the reinforcement mesh on the still fresh surface, ensuring overlaps of about 15-20 cm between the edges. Allow the mesh to penetrate a few millimeters into the mortar but avoid smoothing the surface. Before applying the final coat (at least 5 mm), wait for the product to harden (approximately 6 hours). In the final stage, smooth the surface using a plastic trowel until a flat and closed surface is obtained, free of micro-cracks. To achieve a "civil" finish, **RASOCAL TOP** or **RASOCAL TOP RUSTICO** can be used; do not use lime-based products.

Consumption:

Approximately 15 kg/m² per centimeter of applied thickness.

TECHNICAL DATA

Appearance	Grey powder
Maximum grain size	1,2 mm
Bulk density (powder)	1,3 gr/cm ³ approx.
Bulk density (fresh mortar)	1750 kg/m ³ approx.
Mixing water per 25 kg bag	5,75÷6 lt
Working time	approx. 90 minutes*
Maximum achievable thickness (per single layer)	20 mm
Allowed application temperatures	from +5°C to +30 °C

FINAL PERFORMANCE

Compression strength (EN 12190/EN 1015-11)	≥ 20 MPa
Addhesion to concrete (EN 1542)	≥ 0,8 MPa
Shrinkage/expansion prevented (EN 12617-4)	≥ 0,8 MPa
Water absorption (EN 1015-18)	≤ 0,2 kg/(m ² · min ^{0,5})

*Data expressed at (20±2)°C and (65±5)% relative humidity. Lower temperatures extend maturation and hardening times.

Cleaning of equipment:

Wash hands and equipment with plenty of clean water before the product starts to set; afterwards, mechanical means should be used.

Hygiene and safety:

EUH 208 Contains cement. May cause an allergic reaction. The cement in the product can cause skin irritation and serious eye damage. Do not breathe dust, ventilate the area during mixing, and protect yourself properly with gloves, protective clothing, and goggles. Before use, read the instructions on the packaging carefully and consult the Safety Data Sheet.

Packaging:

REPAIR MUR is supplied in 25 kg paper bags on wooden pallets weighing 1500 kg.

Storage:

Store the product in intact original packaging in cool and dry areas. Do not disperse the dust. Product compliant with DM 10/05/2004. Cr VI content less than 2 ppm. The properly stored product must be used within 6 months from the packaging date stamped on the bag.

Capitolato specifications:

The superficial reconstruction of missing parts and the reinforcement of old masonry, even in tuff or mixed materials, the reinforcement and static consolidation of infills, the surface reinforcement of old slabs (anti-spalling), the restoration of deteriorated parts of floors, steps, cornices, balconies, and frontals, both indoors and outdoors, will be carried out using a single-component fiber-reinforced cementitious mortar, thixotropic, with high adhesion and low elastic modulus, with compensated shrinkage, type **REPAIR MUR** produced by **Industria Calce Casertana Srl**, combined with a specific reinforcement mesh. The product should be mixed with water only (approximately 5.75 - 6 liters per 25 kg bag) and applied in thicknesses ranging from 5 mm to 20 mm per single coat. After 28 days from application, the compressive strength should not be less than 20 MPa (classified as M20 according to EN 998-2).

Warnings:

Do not apply on sun-exposed surfaces or in the presence of strong wind. It is always necessary to wet the surfaces with water until refusal one hour before starting the application. Do not apply on surfaces at risk of freezing within the next 24 hours. In hot weather, to avoid possible cracking or detachment, it is important to protect the surfaces from rapid drying by repeatedly wetting them with sprayed water. Protect the work from rain, washouts, freezing, and direct sunlight. It is recommended not to add foreign products. Only the latest updated version of this technical data sheet, available on the website www.calcecasertana.it, should be considered valid.

PRODUCT FOR EXCLUSIVE PROFESSIONAL USE

All data and information provided in this technical data sheet, although resulting from laboratory tests performed and our direct application experience, due to the infinite variables related to site conditions, are to be considered purely indicative in any case. Therefore, before applying the product, the user is responsible for determining if it is suitable for the intended use, under the specific hygrothermal and application conditions expected at the time of use, and assumes all responsibility. We do not accept liability for damage to people or property resulting from improper use of the product.

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