Sicilgesso®
GESSO. MALTE TECNICHE.

A COMPANY OF mgigroup SINCE 1948

RISANA AQUABLOC

the STRENGTHENERS

Two-component, waterproofing, fibre-reinforced sheath.

RISANA AQUABLOC component A is a grey cementitious powder product, formulated with selected aggregates, fibres and special additives. RISANA AQUABLOC component B is a white liquid product based on synthetic polymers in aqueous dispersion. By mixing the two components a continuous and waterproof elastic mortar is obtained.

RISANA AQUABLOC has a certified elasticity at -20°C. RISANA AQUABLOC is classified, according to EN 14891 European legislation, as “cementitious liquid-applied water impermeable product with improved crack bridging ability at very low temperature (-20 °C) and resistant to contact with chlorinated water (CM 02-P)” for all outdoor installations under ceramic tiling (installation with C2 adhesive in accordance with EN 12004-1). The conformity of RISANA AQUABLOC according to the regulation CE 305/2011 and the standard EN 14891, is proven by the ITT certificate n ° n° 1372-CPR-2344/RP issued by the authorized laboratory Tecno Piemonte SpA of Romagnano Sesia (NO) - NB 1372. RISANA AQUABLOC is classified, according to the European standard EN 1504-2 as C (coating) for protection against ingress (PI), for moisture control (MC), for increasing resistivity by limiting moisture content (IR).

TECHNICAL CHARACTERISTIC	
Appearance component A	Grey powder
Appearance component B	White liquid
Component A density	≈ 1400 kg/m^3
Component B density	≈1000 kg/m^3
Fresh mortar density	≈ 1500 kg/m^3
Component A granulometry	≤ 0.6 mm
Component A consumption	≈ 1,6 kg/m^2 for mm of thickness
Workability	≈ 1 h
Powder : liquid ratio	3 : 1
PERFORMANCE ACCORDING TO EN 14891	
Crack-bridging ability at low temperature (-20°C)	1,41 mm (O2)
Waterproofing	No penetration
Initial tensile adhesion strength	1.1 N/mm^2
Tensile adhesion strength after water contact	1 N/mm^2
Tensile adhesion strength after heat ageing	1.1 N/mm^2

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Tensile adhesion strength after freeze-thaw cycles	1 N/mm^2
Tensile adhesion strength after contact with lime water	1 N/mm^2
Tensile adhesion strength after contact with chlorinated water (P)	1.1 N/mm^2
PERFORMANCE ACCORDING TO EN 1504-2	
Capillary absorption and permeability to water	≥ 1 N/mm^2
Water vapour permeability	< 0.1 kg/m^2·h$^{0.5}$
Permeability to CO_2	Classe I
Capillary absorption and permeability to water	S_D > 50 m
Data expressed at 22 ± 1 ° C with relative humidity at 50 ± 5%. Lower temperatures lengthen the maturation and hardening times; higher temperatures reduce the curing and hardening times.	

RISANA AQUABLOC complies with Reg. 1907/2006 (Reach) All. XVII punto 47.

BAG / A COMPONENT: PAPER BAGS OF 24 KG. B COMPONENT: 8 KG TANKS ~ **PACKAGING /** A COMPONENT: ON PALLETS OF 50 BAGS. B COMPONENT: ON PALLETS OF 40 TANKS.

INDICATION FOR USE

Realization of a protective and waterproofing coating for concrete surfaces, balconies, terraces, swimming pools and bathrooms. In details, RISANA AQUABLOC lets get:

- Anti-carbonation protection of concrete surfaces;
- waterproofing of concrete surfaces, balconies, terraces, before laying ceramic coverings;
- waterproofing of showers, bathrooms, changing rooms and environments subject to washout in general;
- waterproofing of old terraces without demolishing the existing floor;
- moisture protection of plasterboard panels, fiber cement, wood, etc.;
- elastic smoothing of cracked plaster or concrete, before new painting;
- as an adhesion promoter to improve the adhesion of self-levelling compounds on old ceramic floors;
- protection of concrete surfaces from attack by sea water and / or de-icing salts.

CONSERVATION PERIOD

To maintain the characteristics of the product unaltered, keep the bags in a covered, dry place and on wooden pallets. Component A (powder): Pursuant to Ministerial Decree DM 10-05-2004 the correctly stored product must be used within 12 months from the packaging date printed on the bag.
Component B (latex): the correctly stored product must be used within 12 months from the packaging date printed on the tank.

APPLICATION

Substrate preparation:

- make sure that the substrate is clean, dry, consistent, uniformly absorbent, free from rising damp;
- moisten the cured supports before proceeding with the application of RISANA AQUABLOC;
- screeds - do not apply RISANA AQUABLOC on fresh and unripe screeds, wait at least 28 days and, check the humidity before applying (humidity screed has to be less than 4%). Apply a suitable strip on any expansion joints, in all wall / floor and wall / wall corners, in correspondence with all technical service points (drainage pipes, holes, delivery vents, etc.) and micro-cracks. Do not use RISANA AQUABLOC to create slopes;
- floors - existing floors and coverings must be clean and well adherent to the substrate. Eliminate any tiles that have already detached and fill the gaps with quick adhesive. To improve adhesion, chisel or mill the existing flooring and clean well before applying the product;
- plastered walls - cementitious plasters must be adequately cured (not less than 14 days), adherent to the

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substrate, resistant and free of crumbling parts, dust or paints of any kind;

- concrete walls - the surface to be treated must be solid and perfectly clean, with no flimsy and crumbly parts. Remove any traces of release agents.

Mixture preparation - hand or mixer:

- introduce the latex in a clean container (component B 8 kg tank) and add the powder (component A 24 kg bag) mixing carefully with a drill fitted with a whisk at low speed, until a homogeneous paste is obtained. lumps;
- mix slowly in order to not incorporate air bubbles in the product;
- do not exceed 4 minutes of mixing;
- let the mixture rest for 5-10 minutes, remixing it before use.

The mixture obtained must be used within 1 hour. It is possible to mix small quantities of product without using a drill. Avoid mixing with a cement mixer.

RISANA AQUABLOC is applied with a smooth steel trowel in 2 coats, for a total thickness of 3-4 mm. After the first coating, immediately apply an appropriate fiberglass mesh or a suitable macro-perforated non-woven fabric, overlapping one sheet with another for 5 cm thickness. Embed the rebar inside the applied mortar. Wait 2-4 hours for the drying of the first coating, then apply a second layer of the product. After 4/5 days from the laying of the cementitious sheath, proceed with the bonding of ceramic coverings using type C2 adhesives (EN 12004-1): ADHESIO GOLD or ADHESIO PLATINUM, as necessary. For small interventions, the product can be applied without fiberglass mesh. Tanks cannot be filled before 21 days from the applying of the last coat.

WARNINGS

Use the product at temperatures between +5°C and +35°C.
Avoid application on surfaces exposed to direct sunlight and / or strong wind.
Do not apply on supports exposed at risk of freezing or rain in the 48 hours following the installation.
Do not add external components to the RISANA AQUABLOC mixture.
Do not apply on plastic coatings and non-absorbent substrates,
Do not apply directly on bitumen or bituminous membranes.

VOCE DI CAPITOLATO

Supply and installation of two-component, waterproofing, fibre-reinforced sheath for waterproofing concrete surfaces, balconies, terraces, swimming pools and bathrooms, RISANA AQUABLOC, provided with CE marking according to EN 14891 (class CM-O2-P) and EN 1504-2 (C principles PI-MC-IR).

Sicilgesso products comply with the Minimum Environmental Criteria (MEC) indicated in the Environment Ministerial Decree - 11 October 2017. They therefore contribute to reducing environmental impacts, making construction projects in the public sector more sustainable.

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