

Neocem Legante

HYDRAULIC MINERAL LEGANTE TO BE MIXED ON SITE WITH SELECTED AGGREGATES FROM 0 TO 8 MM, GUARANTEED FOR IMPLEMENTING SCREEDS AND RADIANT PLATES FEATURING HIGH DIMENSIONAL STABILITY, NORMAL SETTING, RAPID DRYING AND COMPENSATED SHRINKAGE.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

NEOCEM LEGANTE is a mineral hydraulic LEGANTE that, when mixed with aggregates of selected grain size (0 to 8 mm) and water, enables the production of screeds with high dimensional stability, normal setting, fast drying and compensated shrinkage.

FIELDS OF APPLICATION

NEOCEM LEGANTE is used, both indoors and outdoors, for the creation of screeds, whether bonding or floating, for new construction or renovation work, for the restoration or patching of quick-setting screeds and for the creation of screeds incorporating radiant systems.

SUBSTRATE PREPARATION

NEOCEM LEGANTE can be applied to any type of cement substrate, as long as it is consistent and not subject to rising damp. The substrates must be clean, solid, compact and free of crumbling parts, cement slurry and greasy substances. High temperatures can greatly affect workability times and proper hydration, so in these conditions it can be useful to cool and slightly moisten the substrate to avoid excessive dehydration of the mixture.

APPLICATION

For the preparation of the mixture, mix NEOCEM LEGANTE with assorted aggregates from 0 to 8 mm in diameter and water in a drum mixer, with pressure mixers or continuous auger mixers, until a moist earth consistency with the desired workability is obtained. Hand-mixing is not recommended as it would not allow good dispersion of the components and would therefore require more water. If it is not possible to use a mechanical mixer and/or for small jobs, it is advisable to dry mix NEOCEM LEGANTE with aggregates several times before adding water in small doses.

FLOATING SCREEDS

For the preparation of floating screeds, the NEOCEM LEGANTE mixture must be laid on a layer that may consist of a polyethylene film, soundproofing mat, bituminous felt board or other separating material to allow decoupling between the screed and the existing substrate. In the presence of rising damp, this separating layer must be made of impermeable materials capable of forming a vapour barrier and overlapped by at least 10 cm. It is advisable to interpose compressible material (e.g. polystyrene, cork, etc.) approximately 1 cm thick along the perimeter edges and at any intermediate pillars before applying the mix.

The application of the NEOCEM LEGANTE mixture is carried out using the same techniques as for ready-mixed screeds, preparing bands to respect the levels, and carefully compacting it to create a closed and homogeneous final smoothing, manually with a trowel or mechanically with a machine with a rotating disc. On water or electrical system crossings, which significantly reduce thickness, incorporate reinforcing mesh, metal or glass fibre, of adequate thickness in the screed to reinforce the layer to be made. In order to improve static performance and reduce possible hygrometric shrinkage cracks, metal reinforcement can be inserted over the entire laying surface, especially when there

are very irregular substrates or with considerable variations in thickness. The mesh must be positioned at approximately half the thickness to be covered and in any case covered by at least 2 cm of screed.

If the application of NEOCEM EASY is interrupted, it is necessary to insert a metal reinforcement in the screed cut perpendicularly to the substrate to ensure continuity and a perfect seal when the casting is resumed, avoiding cracks and bending.

COATING OR BONDING SCREEDS (thickness \geq 20 mm)

To make coating or bonding screeds, apply an anchoring grout to the suitably prepared substrate before applying the NEOCEM LEGANTE mix, using the following dosage:

- 1 part, by weight, LATEX RIPRESA, polymeric latex for bonding grouts;
- 1 part, by weight, water;
- 3 parts, by weight, NEOCEM LEGANTE.

Apply the bonding grout in a continuous, even layer using a brush or spatula. Fresh on fresh, apply the NEOCEM LEGANTE mixture following the same application methods described above.

AGGREGATES DOSAGE

200-250 kg/m³

YIELD

2-2.5 kg/m² per cm of thickness.

RECOMMENDATIONS

- ◆ Do not mix NEOCEM LEGANTE with other cements, lime, gypsum.
- ◆ Do not leave NEOCEM LEGANTE dry mixed with aggregates,
- ◆ immediately add the right amount of water to
- ◆ the mixture.
- ◆ Do not mix NEOCEM LEGANTE with fine sand only, use aggregates of assorted particle size from 0 to 8 mm in diameter
- ◆ Do not add excess water and do not mix mixed mortar that has already started setting.
- ◆ When installing marble, natural stone, parquet or resilient floor coverings, always check with a carbide hygrometer that the moisture content of the screed is below 2%.

PACKAGING

NEOCEM LEGANTE is available in 20 kg polyethylene coated paper bags on 1200 kg pallets. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement that, in contact with body perspiration, produces an irritant alkaline and sensitising reaction for the skin. Use suitable clothing, gloves and protective glasses.

Refer to the respective Safety Data Sheet for more information about how to use the product safely.

SPECIFICATIONS

Preparation of screed with high dimensional stability, normal setting, rapid drying and compensated shrinkage, based on mineral hydraulic LEGANTE, such as **NEOCEM LEGANTE** by Colmef Srl, to be mixed on site with selected aggregates from 0 to 8 mm.

TECHNICAL DATA

Appearance:	powder
Colour:	grey
Solid residue (%):	100
Recommended mixture ratio:	200-250 kg NEOCEM LEGANTE with 1m ³ aggregates (0 to 8 mm diameter) and 110-130 kg of water for dried aggregates
Pot life:	60 min.
Walkability:	12 h
Tile installation:	24 h
Laying marble and natural stone:	4 days
Allowed application temperature:	from +5 °C to +35 °C

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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