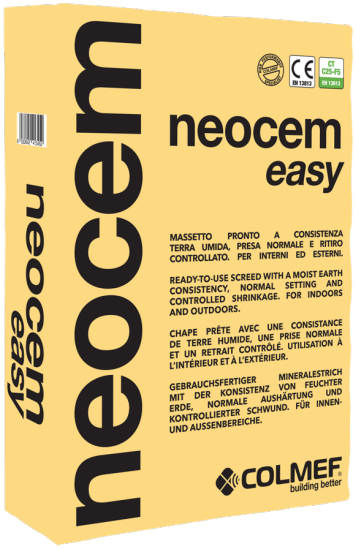
Neocem Easy

READY-TO-USE SCREED WITH A MOIST EARTH CONSISTENCY, NORMAL SETTING AND CONTROLLED SHRINKAGE. FOR INDOORS AND OUTDOORS.

CE EN 13813

CT C25-F5 EN 13813

HIGH PERFORMANCE COLMEF SPECIALIST



TECHNICAL DATA SHEET – REV. 01/2022

DESCRIPTION

NEOCEM EASY is a ready-to-use pre-mixed mortar with normal setting times and compensated shrinkage, based on special binders and selected aggregates. Mixed with water, without the addition of binders or aggregates, it turns into an easily workable product, characterised by setting times similar to those of traditional mortars. The use of NEOCEM EASY results in compact, resistant screeds, free of cracks due to hygrometric shrinkage, with walkability after only 12 hours. It allows ceramic floors to be laid after 24 hours, parquet, resilient flooring, marble and stable natural stone after 10-14 days depending on the thickness.

Compliant with European Standard EN 13813 (Screeds and materials for screeds) for cementitious screeds (CT) of class C25-F5.

FIELDS OF APPLICATION

NEOCEM EASY is used both indoors and outdoors for the construction of adherent screeds ≥ 20 mm thick and floating screeds ≥ 50 mm thick, both for new construction and renovation work. The maximum thickness that can be achieved with NEOCEM EASY is 80 mm.
NEOCEM EASY can also be used to create floating screeds with sound-insulating mats in between or on radiant floor systems.

SUBSTRATE PREPARATION

NEOCEM EASY can be applied, in the appropriate thicknesses, on any type of cementitious 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

To prepare the mixture, mix a 25 kg sack of NEOCEM EASY with approx. 2 litres of clean water in a drum mixer, pressure mixer or continuous auger mixer until a moist earth consistency with the desired workability is achieved. With pressure mixers or continuous mixers, increase the amount of water in the mixture to maintain workability, to avoid dehydration of the mixture due to the development of heat during mixing and transport, without compromising the final mechanical performance and proper hydration of the binder.
Level, compact and trowel the NEOCEM EASY mixture using the same laying techniques as for traditional cementitious screeds, until a closed, smooth and perfectly resistant surface is obtained.
The screed made with NEOCEM EASY must be split with expansion profiles positioned at the door openings. The maximum area that can be realised without fractioning is 40-50m^2. For specific partitions and rooms with particular geometries, the designer's instructions should be followed.

SELF-SUPPORTING FLOATING SLABS (thickness ≥ 50 mm)
For the construction of floating screeds, the NEOCEM EASY 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 NEOCEM EASY is carried out by preparing bands to respect the levels, spreading the mixture and carefully compacting it to create a final smooth, closed and homogeneous finish, 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 ≥ 20 mm)
To make coating or bonding screeds, apply an anchoring grout to the suitably prepared substrate before applying the NEOCEM EASY mix, using the following dosage:
- 300 g of LATEX RIPRESA, polymeric latex for bonding grouts;
- 300 g of water;
- 4 kg of NEOCEM EASY.

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

YIELD

18-20 kg/m^2 per cm of thickness.

RECOMMENDATIONS

- 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%.
- Mix NEOCEM EASY with the correct amount of water as indicated; do not add excess water and do not add mixed mortar that has already started to set.
- Do not add binders, cement, lime, gypsum or aggregates.
- Do not wet down the surface of the installed screed.
- Smoothing carried out with insistent use of a rotating disc could result in a very compact surface, which, by limiting the evaporation of water, would lengthen the drying time.
- Do not install on substrates subject to rising damp but always place a vapour barrier in between.
- Bring the expansion joints in the screed back to the thickness of the substrate.

PACKAGING

NEOCEM EASY is available in 25 kg polyethylene coated paper bags on 1500 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

Self-supporting floating screeds
The preparation of screed classified as CT-C25-F5 in accordance with EN 13813 with ready-to-use screed with a moist earth consistency, normal setting and controlled shrinkage, such as **NEOCEM EASY** by Colmef Srl. The screed will be ≥ 50 mm thick, decoupled from the substrate by inserting polyethylene film, bituminous felt board or other insulating material, observing a consumption of 18-20 kg/m^2 per cm of thickness.

Coating or bonding screeds
The preparation of screed classified as CT-C25-F5 in accordance with EN 13813 with ready-to-use screed with a moist earth consistency, normal setting and controlled shrinkage, such as **NEOCEM EASY** by Colmef Srl. The screed will be made bonding to the suitably prepared substrate, ≥ 20 mm thick, by placing an anchoring grout in between made with the same NEOCEM EASY and mixed with water and polymer latex, such as LATEX RIPRESA by Colmef Srl.

TECHNICAL DATA

Compliant with Standard:	**EN 13813**
Class:	**CT-C25-F5**
Appearance:	powder
Colour:	grey
Mixing ratio:	~ 2 litres of water per 25 kg of powder
Apparent specific weight (kg/m^3):	1900
Particle size (mm):	0-2.5
Maximum applicable thickness (cm):	≥ 8
Pot life:	40-60 min.
Walkability:	12 h
Tile installation:	24 h
Laying marble and natural stone:	after 10-14 days up to 4 cm thick, over 5 cm 28 days
Laying parquet and resilient flooring:	after 10-14 days up to 4 cm thick, over 5 cm 28 days
Allowed application temperature:	from +5 °C to +35 °C

FINAL PERFORMANCE according to EN 13813 Class CT-C25-F5

	Results	**Test method**
Compressive strength at 28 days (N/mm^2):	> 25.0	EN 13892-2
Flexural strength at 28 days (N/mm^2):	> 5.0	EN 13892-2
Thermal conductivity coefficient (W/mK):	λ = 1.25	EN 12524
Residual moisture at 28 days (%):	≤ 2	
Reaction to fire:	Class A1$_{fl}$	EN 13501-1

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

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