

Neocem Pronto

READY-TO-USE SCREED WITH EARTH-DAMP CONSISTENCY, NORMAL SETTING AND RAPID DRYING (4 DAYS), FOR THE PRODUCTION OF CONTROLLED-SHRINKAGE SCREEDS WITH EXCELLENT MECHANICAL STRENGTH AND DIMENSIONAL STABILITY. SUITABLE FOR HEATED SCREEDS. FOR INTERIOR AND EXTERIOR USE.



TECHNICAL DATA SHEET - REVISION 01/2024

DESCRIPTION

NEOCEM PRONTO is a ready-to-use premixed mortar with normal setting times and compensated shrinkage, based on special binders and selected aggregates. When mixed with water without the addition of binders or aggregates, it becomes an easily workable product, characterized by setting times similar to traditional mortars, but with extremely rapid drying times. The use of NEOCEM PRONTO makes it possible to obtain compact, resistant screeds, free from cracks due to hygrometric shrinkage, walkable after only 12 hours and dry within 4 days of application (residual moisture $\leq 2\%$, to be checked with a carbide hygrometer). Ceramic flooring can be installed after 24 hours and parquet or resilient flooring after only 4 days.

Complies with European Standard EN 13813 ("Screed material and floor screeds") for cementitious screeds (CT), class C30-F6 A1fl.

FIELDS OF APPLICATION

NEOCEM PRONTO is used, both indoors and outdoors, for the construction of bonded screeds with thickness ≥ 20 mm and floating screeds with thickness ≥ 40 mm, both for new construction and renovation work. It is ideal for screeds incorporating radiant systems, ensuring high efficiency of the underfloor heating system. NEOCEM PRONTO can also be used to repair or replace old screeds when rapid commissioning is required.

SUBSTRATE PREPARATION

NEOCEM PRONTO can be applied, at the required thicknesses, on any type of substrate and on old ceramic floors, provided they are sound and not subject to rising damp. Substrates must be clean, solid, compact, free of friable parts, cement laitance, greasy substances and old paint. High temperatures can significantly affect final hardening times; under these conditions it may be useful to lightly dampen the substrate to promote proper hydration of the screed.

APPLICATION

To prepare the mix, pour one 25 kg bag of NEOCEM PRONTO into a clean container or concrete mixer containing about 1.8 litres of clean water and mix for 4-5 minutes. The specified amount of water must always be respected, since excess water would increase drying and workability times, while too little water could compromise final mechanical performance and proper hydration of the binder. Level, compact and trowel the NEOCEM PRONTO mix to an "earth-damp" consistency using the same techniques as for traditional cement screeds, until a closed, smooth surface with no water bleeding is obtained.

SELF-SUPPORTING FLOATING SCREEDS (thickness $\geq$ 40 mm)

For floating screeds, the NEOCEM PRONTO mix must be laid on a separating layer consisting of polyethylene film, bituminous felt paper or other insulating material, in order to separate the screed from the existing substrate. In the presence of rising damp, this separating layer must be made with waterproof materials capable of forming a vapour barrier. It is advisable to place insulating material (such as polystyrene, cork, etc.) about 1 cm thick also along the perimeter edges and around any intermediate pillars before laying the mix.

NEOCEM PRONTO is applied by preparing level guides, laying the mix and compacting it carefully, then finishing with a trowel to obtain a closed and uniform surface. Where water or electrical services pass through, causing a significant reduction in thickness, embed a reinforcing mesh in the screed to reinforce the installed layer. If the substrate is particularly irregular or has significant thickness variations, it is advisable to place reinforcing mesh over the entire laying surface.

If the application of NEOCEM PRONTO is interrupted, metal reinforcement must be inserted in the screed cut perpendicular to the substrate, to ensure continuity and perfect sealing when the pour is resumed, preventing cracking and curling.

TOPPING OR BONDED SCREEDS (thickness $\geq$ 20 mm)

For topping or bonded screeds, before laying the NEOCEM PRONTO mix, apply a bonding slurry to the suitably prepared substrate using the following dosage:

- 300 g of LATEX RIPRESA, polymer latex for bonding slurries;
- 300 g of water;
- 4 kg of NEOCEM PRONTO.

Apply the bonding slurry in a continuous, uniform layer with a brush or trowel. Wet-on-wet, lay the NEOCEM PRONTO mix using the same laying methods described above.

YIELD

18-20 kg/m² per cm of thickness.

RECOMMENDATIONS

- ◆ Mix NEOCEM PRONTO with the correct amount of water indicated; do not add excess water and do not remix mortar that has already begun to set.
- ◆ Do not add binders, cement, lime, gypsum or aggregates.
- ◆ Never wet the surface of the laid screed.
- ◆ Finishing with prolonged use of a rotary disc may produce a very compact surface which, by limiting water evaporation, would extend drying times.
- ◆ Do not lay on substrates subject to rising damp; always install a vapour barrier.
- ◆ Carry through the screed thickness any expansion joints present in the substrate.

PACKAGING

NEOCEM PRONTO is supplied in 25 kg polyethylene-lined paper bags on 1500 kg pallets. Store the product in dry conditions in its original, tightly closed packaging. Under these conditions, its stability is at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement which, on contact with body perspiration, produces an alkaline reaction that is irritating and sensitising to the skin. Wear suitable clothing, gloves and safety goggles.

For further information on safe use of the product, consult the relevant Safety Data Sheet.

SPECIFICATION**Self-supporting floating screeds**

Construction of a screed classified CT-C30-F6 A1fl in accordance with EN 13813 using ready-to-use premixed mineral mortar, normal setting, rapid drying and compensated shrinkage, such as NEOCEM PRONTO by Colmef Srl, guaranteed for the construction of high-strength screeds with dimensional stability. The screed shall be

installed at thicknesses ≥ 40 mm, separated from the substrate by interposing polyethylene film, bituminous felt paper or other insulating material, at a consumption of 18-20 kg/m² per cm of thickness.

Topping or bonded screeds

Construction of a screed classified CT-C30-F6 A1fl in accordance with EN 13813 using ready-to-use premixed mineral mortar, normal setting, rapid drying and compensated shrinkage, such as NEOCEM PRONTO by Colmef Srl, guaranteed for the construction of high-strength screeds with dimensional stability. The screed shall be bonded to the suitably prepared substrate, at thicknesses ≥ 20 mm, with an interposed bonding slurry made with the same NEOCEM PRONTO mixed with water and polymer latex, such as LATEX RIPRESA by Colmef Srl.

TECHNICAL DATA

Complies with Standard:	EN 13813
Class:	CT-C30-F6 A1fl
Appearance:	powder
Colour:	grey
Mixing ratio:	~ 1.8 litres of water per 25 kg of powder
Apparent density (kg/m ³):	1900
Particle size (mm):	0-2.5
Minimum thickness for floating screeds (cm):	≥ 4
Minimum thickness for bonded screeds (cm):	≥ 2
Pot life:	40-60 min.
Foot traffic:	12 h
Tile installation:	24 h
Parquet installation:	4 days
Permitted application temperature:	from +5 °C to +35 °C

FINAL PERFORMANCE according to EN 13813 Class CT-C30-F6 A1fl

	Results	Test method
Compressive strength at 28 days (N/mm ²):	> 30.0	EN 13892-2
Flexural strength at 28 days (N/mm ²):	> 6.0	EN 13892-2
Thermal conductivity coefficient (W/mK):	$\lambda = 1.20$	EN 12524
Residual moisture at 4 days (%):	≤ 2	
Residual moisture at 28 days (%):	≤ 1	
Reaction to fire:	Class A1fl	EN 13501-1

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

The information and recommendations given above are based on our best experience. However, we cannot accept any responsibility for improper use of the products. We therefore recommend that anyone intending to use the product assess whether it is suitable for the intended application and in all cases carry out preliminary tests. Always refer to the latest updated version of the technical data sheet, available at www.colmef.com.

FOR FURTHER INFORMATION OR SPECIAL APPLICATIONS, CONSULT COLMEF TECHNICAL ASSISTANCE SERVICE.

COLMEF SRL | Z.I. Ponte d'Assi | 06024 - Gubbio (PG) ITALY | Tel. +39 075923561 | info@colmef.com | www.colmef.com