



Neofil F 15

MINERAL ADHESIVE WITH IMPROVED ADHERENCE AND EXTENDED OPEN TIME, GOOD WORKABILITY. SUITABLE FOR PROFESSIONAL WALL AND FLOOR LAYING OF CERAMIC TILES, MOSAICS AND STABLE NATURAL STONES ON GYPSUM OR ANHYDRITE SUBSTRATES WITHOUT THE PRIOR APPLICATION OF PRIMER. FOR INDOORS AND OUTDOORS.



TECHNICAL DATA SHEET - REV. 01/2022

DESCRIPTION

NEOFIL F 15 is a white powder consisting of special hydraulic binders, selected mineral fillers, synthetic resins and additives. Mixed with water, it is transformed into a thixotropic product with good workability, extended open time that facilitates laying operations, free from particular shrinkage during hardening and high adhesion to materials normally used in construction, suitable for application on gypsum or anhydrite substrates without the prior application of primer. For thicknesses up to 10 mm.

Conforms to European Standard EN 12004 - Class C2E - Cementitious adhesive (C) with improved characteristics (2), extended open time (E).

FIELDS OF APPLICATION

NEOFIL F 15 is used for indoor and outdoor bonding, both on the wall and the floor, of all types of ceramic tiles, such as single-fired, porcelain stoneware, klinker, fired, glassy mosaic, stone material that is not subject to deformation or staining due to water absorption, marble and reconstituted material as long as dimensionally stable and not sensitive to moisture.

NEOFIL F 15 can be applied without prior primer application, on gypsum or scagliola-based substrates, on gypsum or gypsum block panels, on anhydrite screeds and on plasterboard, as long as it is rigidly supported. It can also be applied to all cementitious substrates normally used in construction, such as plaster and cementitious screeds made with products from the NEOCEM line, concrete, self-levelling screeds.

SUBSTRATE PREPARATION

The substrates must be sufficiently dry and seasoned, mechanically resistant, flat, solid, compact, free of crumbling or inconsistent parts, without any dust and greasy substances, oil, paint, wax and any material that could compromise perfect product adhesion.

The anhydrite screeds must be perfectly hardened, clean, dry (maximum residual humidity 0.5%) and must be previously sanded. Check that the panels are perfectly anchored and rigidly supported for installation on plasterboard. The cementitious substrates must not be subjected to shrinkage after laying the tiles and, therefore, they must have already completed the hygrometric shrinkage that can be evaluated in one or two weeks for each cm of thickness for the plaster and in at least 28 days of total curing for cementitious screeds, unless they are made with quick-drying ready-to-use screed and NEOCEM PRONTO FIBRATO compensated shrinkage or with special NEOCEM hydraulic binder. Very porous, highly absorbent and superficially crumbling surfaces must be treated with RASOTECH PRIMER CONSOLIDANTE consolidating impregnating agent so as to reduce the absorption of the screed and improve workability and adhesion of NEOFIL F 15.

APPLICATION

To prepare the mixture, pour a 25-kg bag of NEOFIL F 15 in a clean container with 6 litres of clean water and mix until smooth and free of lumps. Let the mixture rest for a few minutes, remixing quickly before use. This mixture remains workable for about 4 hours at a temperature of +23°C.

Apply a zero layer of adhesive on the substrate with a smooth spatula, to ensure better adhesion and lengthen the open and adjustment time. Immediately afterwards, use a suitable toothed spatula to apply the required amount of mixture to ensure the back of the tiles are perfectly wet. Tiles are laid by applying firm pressure to ensure contact with the adhesive. Make sure that the adhesive spread on the surface is always fresh and has not formed a superficial film; in which case, refresh the adhesive by spreading it again with the notched spatula. For large format tiles or with irregular backs, for outdoor installation or in very humid environments and in environments subject to intense traffic or heavy loads, apply the adhesive also on its back (double coating technique), to avoid any gaps, which could cause breakage or detachment due to the concentrated load pressure or frost reaction. Provide perimeter joints and flexible connectors every 20-25 m² inside, every 10-15 m² outside and every 8 linear metres along the corridors. In any case always observe the structural expansion joints and any string-course joints.

Make sure there are joints between tiles of at least 2-3 mm depending on the type and format of the coating. The grouting can be applied 6 hours after laying coatings and 24 hours after applying floors with the specific COLMEF mineral sealants, available in different colours. The surfaces can be used after 7-14 days, depending on the environmental conditions.

YIELD

2.5-5.0 kg/m² depending on the type of substrate and the type of tile.

RECOMMENDATIONS

- ◆ High or low temperatures may affect the final curing time, shortening or extending them considerably. In these conditions, it may be useful to dampen cementitious substrates before applying the adhesive to extend the open time.
- ◆ Do not use NEOFIL F 15 on non-cured cementitious concrete substrates subject to major shrinkage, substrates subject to dimensional instability and metal, wood, fibre cement, plastic and resilient material surfaces.
- ◆ Do not use NEOFIL F 15 for overlaying existing ceramic or marble floors.
- ◆ Do not remix or add water to the product that has already started to set.
- ◆ Protect the covering from rain, wash-out, direct sunlight and frost for at least 24 hours or in any case until the product is fully hardened.
- ◆ Wash all the equipment used for preparation and application of the product with water before it hardens. After setting, the mortar can only be removed mechanically.

PACKAGING

NEOFIL F 15 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 is of at least 12 months.

SAFETY INSTRUCTIONS

The product contains cement that on 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

Laying ceramic tiles, mosaics and stable natural stones with mineral adhesive with improved adhesion and extended open time, good workability, classified as C2E by the EN 12004 Standard, **NEOFIL F 15** type by Colmef Srl, suitable for laying on gypsum or anhydrite substrates without the prior application of primer or on traditional substrates.

TECHNICAL DATA

Compliant with Standard:	EN 12004
Class:	C2E
Appearance:	powder
Colour:	white
Apparent specific weight (kg/m ³):	1300
Solid residue (%):	100
Mixing ratio:	~ 6 litres of water for 25 kg of powder
pH value:	≥ 12
Flammability:	no
Adjustment time:	≥ 40 min.
Pot life:	4 h
Wall grouting after:	6 h
Floor grouting:	24 h
Commissioning:	7-14 days
Allowed application temperature:	from +5 °C to +35 °C
Operating temperature:	from -30 °C to +90 °C

FINAL PERFORMANCE according to EN 12004 Class C2E

	Results	Test method
Initial adhesion after 28 days (N/mm ²):	≥ 1,0	EN 1348
Adhesion after heat action: (N/mm ²):	≥ 1,0	EN 1348
Adhesion after immersion in water (N/mm ²):	≥ 1,0	EN 1348
Adhesion after freeze-thaw cycles (N/mm ²):	≥ 1,0	EN 1348
Open time: traction adhesion (min.):	≥ 30	EN 1346

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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