



# Neofil F 80 Maxi

**MINERAL ADHESIVE WITH IMPROVED ADHESION, DEFORMABLE, NO VERTICAL SLIP, EXTENDED OPEN TIME AND EXCELLENT WORKABILITY. SUITABLE FOR PROFESSIONAL LAYING OF NATURAL STONE COVERINGS ON WALLS AND FLOORS. FOR INDOORS AND OUTDOORS.**



**TECHNICAL DATA SHEET - REV. 01/2022**

## DESCRIPTION

NEOFIL F 80 MAXI is a grey powder consisting of hydraulic binders, selected mineral fillers, synthetic resins and special additives. Mixed with water, it is transformed into an excellent thixotropic product with excellent workability and extended open time that facilitates laying operations, high performance and high adhesion to materials normally used in construction, applicable upright without the risk of sagging or stones slipping and free from particular shrinkage during hardening.

For thicknesses up to 15 mm.

**Classification according to European standard EN 12004 - C2TE S1 · Cement adhesive (C) improved adherence (2), no vertical slip (T), with extended open time (E), deformable (S1).**

## FIELDS OF APPLICATION

NEOFIL F 80 MAXI is particularly suitable for indoor and outdoor installation of natural stone claddings, even if thick or large-sized, stone claddings, string course edge beams and wainscoting. NEOFIL F 80 MAXI can also be 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, large formats, klinker, fired, boards with highly profiled backs or with large thickness tolerances, marble and reconstituted material as long as dimensionally stable and not sensitive to moisture.

NEOFIL F 80 MAXI can be applied on all cementitious substrates normally used in construction, such as plaster, concrete, self-levelling screeds, disconnected substrates with thickness differences of up to 15 mm (without previous levelling), cementitious screeds that are also subject to intense traffic and screeds made with products from the NEOCEM line. It can be used for laying floors on heating screeds, for overlapping installation on existing ceramic or marble floorings adequately prepared and for laying floors on elastomer or elastic cementitious waterproofing membranes.

## 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 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 80 MAXI.

## APPLICATION

To prepare the mixture, pour a 25-kg bag of NEOFIL F 80 MAXI 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 the adhesive on the substrate using a trowel with suitable tothing according to the thickness to be applied. Apply the adhesive also on the back of the stones or tiles to prevent gaps, which could cause breakage or detachment due to the concentrated load pressure or frost reaction. Stones or 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.

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

1.3 kg/m<sup>2</sup> per mm of thickness.

## RECOMMENDATIONS

- ◆ When laying ceramic flooring, provide perimeter joints and flexible connectors every 20-25 m<sup>2</sup> inside, every 10-15 m<sup>2</sup> 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.
- ◆ 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 80 MAXI on non-cured cementitious concrete substrates subject to major shrinkage and metal, wood, plastic and resilient material surfaces.
- ◆ 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 80 MAXI 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. Consult the Safety Data Sheet for more information to use the product safely.

## SPECIFICATIONS

Wall and floor cladding in natural stones with mineral adhesive with improved, deformable adhesion, no vertical slip, extended open time and excellent workability, classified as C2TE S1 by the EN 12004 Standard, **NEOFIL F 80 MAXI** type by Colmef Srl, suitable for laying on traditional or overlapping substrates on existing substrates.

**TECHNICAL DATA**

<b>Compliant with Standard:</b>	<b>EN 12004</b>
<b>Class:</b>	<b>C2TE S1</b>
Appearance:	powder
Colour:	grey white
Apparent specific weight (kg/m <sup>3</sup> ):	1300
Solid residue (%):	100
Mixing ratio:	~ 6 litres of water for 25 kg of powder
pH value:	> 12
Flammability:	no
Adjustment time:	≥ 25 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 C2TE S1**

	<b>Results</b>	<b>Test method</b>
Initial adhesion after 28 days (N/mm <sup>2</sup> ):	≥ 1,0	EN 1348
Adhesion after heat action: (N/mm <sup>2</sup> ):	≥ 1,0	EN 1348
Adhesion after immersion in water (N/mm <sup>2</sup> ):	≥ 1,0	EN 1348
Adhesion after freeze-thaw cycles (N/mm <sup>2</sup> ):	≥ 1,0	EN 1348
Open time: traction adhesion (min.):	≥ 30	EN 1346
Vertical slip (mm):	≤ 0,5	EN 1308
Transverse deformation (mm):	≥ 2.5	EN 12002

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](http://www.colmef.com).

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

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