



**COLMEF**<sup>®</sup>  
BUILDING BETTER

# Neofil F 7

**MINERAL ADHESIVE WITH NO VERTICAL SLIP AND EASY WORKABILITY. SUITABLE FOR PROFESSIONAL WALL AND FLOOR LAYING OF CERAMIC TILES. FOR INTERIOR.**



**TECHNICAL DATA SHEET - REV. 01/2023**

## DESCRIPTION

NEOFIL F 7 is a gray or white powder made up of a mixture of hydraulic binders, selected mineral fillers, synthetic resins and special additives. Mixed with water, it transforms into a thixotropic product of easy workability to facilitate installation operations, excellent adhesion to materials normally used in building, applicable vertically without the risk of sagging and free from particular shrinkage during hardening. For thicknesses up to 10 mm.

**Classification according to European standard EN 12004 - C1T - Normal cementitious adhesive (C1), no vertical slip (T).**

## FIELDS OF APPLICATION

NEOFIL F 7 is used for indoor bonding, both on walls and floors, of absorbent ceramic tiles of small and medium size such as single-fired, double-fired, terracotta, ceramic mosaics and for spot gluing of insulating materials such as expanded polystyrene, polyurethane foam, cork, glass or rock wool, Eraclit, sound-absorbing panels, etc. It can be applied on all cementitious substrates normally used in building such as cementitious screeds, self-leveling screeds, cementitious plasters, cellular concrete, on substrates in gypsum or plasterboard, as long as rigidly supported, on anhydrite screeds (after applying the insulating primer PRIMER A 16).

To increase adhesion to substrates and make the adhesive deformable or highly deformable (C2 / S1 / S2 according to the EN 12004 standard), mix NEOFIL F 7 with ELASTOKOL polymer elasticizing latex, replacing the mixing water.

## SUBSTRATE PREPARATION

The substrates must be sufficiently dry and cured, mechanically resistant, flat, solid, compact, free from crumbly or inconsistent parts, free from dust, greasy substances, oils, paints, waxes or anything else that could affect the perfect adhesion of the product.

Cementitious substrates must not be subject to shrinkage following the laying of the tiles and, therefore, must have already made the hygrometric shrinkage that can be evaluated in one or two weeks for each centimeter of thickness for the plasters and in at least 28 days of overall curing for the screeds. cementitious, unless they are made with NEOCEM PRONTO FIBRATO ready-to-dry and shrinkage-compensated screed or with a special NEOCEM hydraulic binder. The anhydrite screeds must be perfectly hardened, clean, dry (maximum residual humidity 0.5%) and must be treated, after sanding, with an insulating primer based on synthetic resins in aqueous dispersion PRIMER A 16. For direct laying on gypsum or plasterboard always provide a treatment with PRIMER A 16. Very porous, highly absorbent and chalking surfaces on the surface must be treated with consolidating impregnating agent RASOTECH PRIMER CONSOLIDANTE, in order to decrease the absorption of the screed and improve the workability and adhesion of NEOFIL F 7.

## APPLICATION

To prepare the mix, pour a 25 kg bag of NEOFIL F 7 into a clean container containing approximately 7 liters of clean water (5.5-6 liters of water for 20 kg bag) and mix until a homogeneous and lump-free paste is obtained. Leave the resulting mixture to rest for a few minutes, remixing it briefly before using it. This mixture remains workable for about 8 hours at a temperature of +23 ° C.

Apply a zero layer of the adhesive to the substrate with a smooth trowel, in order to ensure better adhesion, lengthen the open and registration time. Immediately afterwards, apply the amount of mix necessary to ensure perfect wetting of the back of the tiles using a suitably toothed trowel. The tiles are laid by applying good pressure to them to ensure contact with the adhesive. Pay attention that the adhesive spread on the surface is always fresh and has not formed a surface film; in this case, refresh the adhesive by re-spreading it with a notched trowel. For installations in very humid environments, in environments subject to intense traffic, for floors to be smoothed on site or subject to heavy loads, spread the adhesive also on the reverse side of the same (double-spreading technique), to avoid gaps remaining that could cause breakages or detachments due to the pressure of concentrated loads or the action of frost. Provide perimeter joints and elastic fractionation joints every 20-25 m<sup>2</sup> inside and every 8 linear meters along the corridors. In any case, always respect the structural expansion joints and the string course joints that may be present.

Provide joints between tiles of at least 2-3 mm depending on the type and size of the covering. The execution of the joints can be carried out after 6 hours from laying for coverings and after 24 hours for floors with the special COLMEF mineral sealants, available in different colors. The surfaces can be put into service after 7-14 days depending on the environmental conditions.

## YIELD

2.5-5.0 kg/m<sup>2</sup> depending on the type of substrate and the type of tile.

## RECOMMENDATIONS

- ◆ Do not use NEOFIL F 7 for outdoor installations.
- ◆ High or low temperatures can influence the final hardening times, shortening or lengthening them significantly. In these conditions it may be useful to moisten the cement substrates before applying the adhesive to extend the open time.
- ◆ Do not use NEOFIL F 7 on unseasoned cementitious substrates, metal surfaces, wood, fiber cement, plastic and resilient materials.
- ◆ Do not stir or add water to the product which has already begun to set.
- ◆ Protect the coating from rain, washout, the action of the beating sun and frost for at least 24 hours or in any case until the product is completely hardened.
- ◆ Wash all the equipment used for the preparation and application of the product with water before it hardens. After setting, the mortar can only be removed mechanically

## PACKAGING

NEOFIL F 7 is available in 25 kg polyethylene coated paper bags on 1500 kg pallets and 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 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

Installation of absorbent ceramic tiles of small and medium size such as single-fired, double-fired, terracotta, ceramic mosaics with mineral adhesive with no vertical slip, classified as C1T by the EN 12004 standard, type **NEOFIL F 7** by Colmef Srl. To increase adhesion to substrates and make the adhesive highly deformable (C2 / S1 according to the EN 12004 standard), mix NEOFIL F 7 with polymeric elasticizing latex, such as ELASTOKOL by Colmef Srl.

**TECHNICAL DATA**

<b>Compliant with Standard:</b>	<b>EN 12004</b>
<b>Class:</b>	<b>C1T</b>
Appearance:	powder
Colour:	grey white
Apparent specific weight (kg/m <sup>3</sup> ):	1300
Solid residue (%):	100
Mixing ratio:	~ 7 litres of water for 25 kg of powder 5.5-6 litres of water for 20 kg of powder
pH value:	13
Flammability:	no
Adjustment time:	≥ 40 min.
Pot life:	8 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 C1T**

	<b>Results</b>	<b>Test method</b>
Initial adhesion after 28 days (N/mm <sup>2</sup> ):	≥ 0,5	EN 1348
Adhesion after heat action: (N/mm <sup>2</sup> ):	≥ 0,5	EN 1348
Adhesion after immersion in water (N/mm <sup>2</sup> ):	≥ 0,5	EN 1348
Adhesion after freeze-thaw cycles (N/mm <sup>2</sup> ):	≥ 0,5	EN 1348
Vertical slip (mm):	≤ 0,5	EN 1308

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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