

Neofil P 12

IMPROVED READY-TO-USE DISPERSION ADHESIVE, WITH HIGH DEFORMABILITY, ZERO VERTICAL SLIP, EXTENDED OPEN TIME AND EXCELLENT WORKABILITY. SUITABLE FOR PROFESSIONAL WALL AND FLOOR INSTALLATIONS OF CERAMIC TILES, MOSAICS OF ALL TYPES, NATURAL STONES NOT SENSITIVE TO MOISTURE, ON PLASTER SURFACES, PLASTERBOARD AND ANHYDRITE SCREEDS WITHOUT THE USE OF A PRIMER. IDEAL FOR BONDING HEAT-INSULATING OR SOUND-ABSORBING PANELS. FOR INTERIORS AND EXTERIOR WALLS.



TECHNICAL DATA SHEET - REV. 01/2024

DESCRIPTION

NEOFIL P 12 is a ready-to-use dispersion adhesive made with synthetic resins in aqueous dispersion, mineral fillers and special additives. NEOFIL P 12 comes in the form of a viscous paste, easily spreadable, with elongated open time and good thixotropy that allows applications even vertically without the risk of running or sliding tiles. The NEOFIL P 12 setting takes place by evaporation of the water contained in it, until it reaches excellent flexibility and high adhesion, which resists the deformation of the building materials. NEOFIL P 12 is characterized by good water resistance that allows it to be used even in humid environments.

For thicknesses up to 8 mm.

Conforms to European Standard EN 12004 - Class D2TE · Enhanced dispersion adhesive (D) (2) with zero vertical slip (T), elongated open time (E).

FIELDS OF APPLICATION

NEOFIL P 12 can be used indoors, both on walls and on floors, and outdoors only on walls. It is used for bonding tiles, ceramic mosaics of all types and sizes, natural stones not sensitive to humidity, on gypsum, plasterboard and anhydrite screeds without the use of primers, plasters and cementitious screeds, self-leveling, cellular concrete, cast-on-site or prefabricated concrete, wooden substrates and non-water-sensitive derivatives. NEOFIL P 12 is also suitable for bonding heat-insulating or sound-absorbing panels such as polystyrene foam, polyurethane foam, cork, glass or rock wool, Eraclit, etc..

NEOFIL P 12 can also be used for bonding absorbent ceramic tiles on walls already painted with enamels, varnishes, water-based paints or tempera, as long as these paints are well anchored to the plaster and do not show obvious signs of deterioration. Installation on lime-treated walls is not recommended.

PREPARING THE SURFACE

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

NEOFIL P 12 can be applied directly to plaster or similar surfaces without the use of primers, as long as the substrates are dry and solid.

Cementitious substrates must have already undergone hygrometric shrinkage, which can be assessed in one or two weeks for each centimeter of thickness for plasters and in at least 28 days of overall ageing for cementitious screeds, unless they are made with a ready-to-dry screed and compensated shrinkage NEOCEM PRONTO FIBRATO or with the special NEOCEM hydraulic binder.

APPLICATION

Apply a zero layer of the adhesive to the substrate with a smooth spatula, in order to ensure better adhesion, lengthen the open and registration time. Immediately afterwards apply, by means of a suitable toothed spatula, the amount of mixture necessary to ensure the perfect wetting of the reverse of the tiles. Lay the tiles by applying adequate pressure to ensure contact with the adhesive. The NEOFIL P 12 open time under normal temperature and humidity conditions varies between 40 and 45 minutes, therefore the tiles must be applied within this timeframe. Always make sure that the adhesive applied on the surface is fresh and has not formed a surface film, in which case refresh the adhesive by coating it again with the toothed spatula. For large-sized tiles or tiles with irregular backs, spread the adhesive also on the back (double-buttering technique), to avoid any remaining gaps.

Coatings applied with NEOFIL P 12 should not be heavily washed for the first 10 days after installation.

Provide joints between tiles of at least 2-3 mm depending on the type and format of the coating. The execution of the joints can be carried out after 6 hours from the laying for coatings and after 24 hours for floors with the special mineral sealants COLMEF, available in various colours. With regard to coating applications on very flexible structures, it is advisable to fill the joints with elastic or flexible sealants.

The surfaces can be put to use after 14 days depending on the environmental conditions.

YIELD

2.5-3.0 kg/m².

RECOMMENDATIONS

- ◆ Do not use NEOFIL P 12 for outdoor flooring applications.
- ◆ Do not use NEOFIL P 12 for applications on floors subject to rising humidity.
- ◆ Do not use NEOFIL P 12 on metal surfaces or for laying non-absorbent tiles on non-absorbent surfaces.
- ◆ Wash all the tools used for the preparation and application of the product with water before it hardens. After gripping, the adhesive can be cleaned with acetone or turpentine.

PACKAGING

NEOFIL P 12 is supplied in drums ranging from:

- ◆ 2.5 kg on 240 kg pallets
- ◆ 5 kg on 320 kg pallets
- ◆ 15 kg on 540 kg pallets
- ◆ 25 kg on 825 kg pallets.

Store the product in dry environments, in the original packaging tightly closed and protected from frost. Under these conditions its stability is at least 12 months.

SAFETY INSTRUCTIONS

The product is very adhesive. Wear suitable clothing, gloves and protective goggles.

For more information on safe use of the product, refer to the relevant Safety Data Sheet.

ITEM SPECIFICATIONS

Installation of ceramic tiles and mosaics of all types on plaster surfaces, plasterboard and anhydrite screeds without the use of primer with improved dispersion adhesive ready to use, with high deformability, zero vertical slipping, elongated open time and excellent workability, classified as D2TE by EN 12004, such as **NEOFIL P 12** of Colmef Srl, suitable for internal applications and for applications on external walls.

TECHNICAL DATA

Compliant with the Standard:	EN 12004
Class:	D2TE
Appearance:	dense paste
Colour:	white
Apparent specific weight (kg/l):	1.60
Solid residue (%):	80
pH value:	9
Flammability:	no
Register time:	≥ 60 min.
Execution of wall joints:	6 h
Execution of floor joints:	24 h
Put into service:	14 days
Permissible application temperature:	from +5 °C to +35 °C
Operating Temperature:	-30 °C to +90 °C

FINAL PERFORMANCE according to EN 12004 Class D2TE

	Results	Test method
Initial shear adhesion (N/mm ²):	≥ 1.0	EN 1324
Shear adhesion after thermal ageing (N/mm ²):	≥ 1.0	EN 1324
Adhesion after immersion in water (N/mm ²):	≥ 0.5	EN 1324
High temperature adhesion (N/mm ²):	≥ 1.0	EN 1324
Open time: traction adhesion (min.):	≥ 30	EN 1346
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.

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

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