



N2

One-component thixotropic cement-based adhesive with extended open time for indoor and outdoor installation of single and double fired materials on cement-based substrates.



Fields of application:

- to apply single or double fired floor tiles indoors on cured cementbased screeds;
- to apply single or double fired floor tiles outdoors on cured cementbased screeds;
- to apply single and double fired wall tiles and ceramic mosaics indoors on traditional and pre-mixed renders;

- when mixed with Isoflex it reaches the deformability class S1;
- professional use only

Characteristics:

N2 is a one-component cement-based adhesive with standard setting, classified CITE according to norm EN 12004. The formula of **N2**, made up of selected aggregates, 52.5 Portland binders, thixotropizing synthetic polymers and celluloses, gives the adhesive an open time of 30 minutes, making it ready for walk over after 24 hours and ready for use in 7 days, guaranteeing easy and safe installation of single or double fired floor and wall tiling. Indicated for indoor and outdoor civil, commercial and industrial applications..

Application:

N2 must be mixed with 6.5 l of water every 25 kg bag with a low speed stirrer, till getting a smooth mixture free of lumps. Do not add other hydraulic binders or aggregates. Check that the substrate complies with norm EN 11493 point 7.3 as for the requirements of curing, integrity, surface sturdiness, dimensional regularity, residual humidity and rising damp. In very absorbing substrates, gypsum, anhydrite or with minor crumbling pre-treat with Primer GS. Apply N2 creating an adhesive layer of max. 10 mm, so as to coat the tile back side completely. Follow the norm EN 11493 point 7.9/7.11 for outdoor applications, in sizes with side ≥ 60 cm and in low thickness tiles. Apply a layer of adhesive on the tile back side (backbuttering) in case of strong stresses or when required by the ceramic manufacturer. Create elastic expansion joints every 10 m² outdoors and every 25 m² indoors, every 4 m in sidewalks and skirting boards. method). The materials applied with N2 must be protected from the rain during the 24 hours following laying and must not be exposed to freezing temperatures for the first 5 days.

Quality and Environmental Standards:

N2 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

CE	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy
DOP-IT-01-009 N2 GRIGIO EN 12004:2007+A1:2012 Standard cement-based adhesive for the installation of floor and wall ceramic tiles, for indoor and outdoor application.	
Fire reaction:	Class A1/A1 fl
Adhesion strength:	
- Initial tensile adhesion	$\geq 0,5$ N/mm ²
Durability:	
- Tensile adhesion after thermal ageing	$\geq 0,5$ N/mm ²
- Tensile adhesion after immersion in water	$\geq 0,5$ N/mm ²
- Tensile adhesion after frost-thaw cycles	$\geq 0,5$ N/mm ²
Release of harmful substances:	See Safety data sheet

Characteristics	Application methods	Consumption
One-component Mixture water: 24-27% in weight Open time: 30 minutes Adjustment time: 45 minutes Waiting time for wall joint grouting: 4/8 hours Waiting time for floor joint grouting: 24 hours Frost-proof Walk over time: 24 hours Ready for use: 14 days	Smooth or toothed trowel	2.5-5 kg/m ²
		Storage
		Shelf life of 12 months in the original packages and in a dry place

Code	Product	Form and color	Packages	Pallet
101025	N2	Grey powder	25 kg package	1500 kg
101125	N2	White powder	25 kg package	1500 kg
101225	N2	Grey powder	4x5 kg bundle	480 kg
101205	N2	White powder	4x5 kg bundle	480 kg

Warning

- do not use for laying non-absorbent tiles, such as porcelain stoneware;
- do not use for laying glass mosaic tiles or suchlike;
- do not use for laying large-size tiles;
- do not use on heated screeds;
- do not use on prefabricated or cast-in-situ concrete constructions;
- do not use for swimming pools or external walls;
- on gypsum or anhydrite bases, use Primer GS beforehand;
- do not use on wooden bases or plasterboard walls;
- do not use on metal, rubber, PVC or linoleum surfaces;
- do not use to lay new materials on top of existing materials or on surfaces which need to be treadable in a short space of time.



Technical and application specifications

Hazard classification as per Directive 99/45/CE:	grey: irritant - white: none
Mixing water:	24-27% of weight (approx. 6.5 l per 25 kg bag)
Specific weight of mixture:	1.30 g/cm³
Mixture pH:	13
Pot life:	over 8 hours
Application temperature:	from +5°C to +35°C
Open time (according EN 1346):	approx. 30 minutes
Handing time:	approx. 45 minutes
Joint sealant hardening time on walls:	approx. 4/8 hours (depending on the absorption)
Joint sealant hardening time on floors:	approx. 24 hours
Walk-over time:	24 hours
Ready for use:	approx. 14 days
FINAL PERFORMANCES SPECIFICATIONS EN 1348 (N/mm²)	
Initial adhesion (after 28 days):	1.30 N/mm²
Adhesion after immersion in water:	1.00 N/mm²
Adhesion after freeze-thaw cycles:	1.00 N/mm²
AdAdhesion after heat action:	0.90 N/mm²
Acid resistance:	poor
Resistance to damp, solvents, oil, alkalis and alkalies:	excellent
Temperature resistance:	from -30°C to +90°C
Deformability:	none
Harmonised customs code:	38245090

Measurement of data at 23°C/50% Residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.