

Spanish
Technology



Pidilite
grupopuma

NioPro / **Roff**

TECHNOLOGY
FOR PROFESSIONALS







Introducing 5 cutting-edge Advanced adhesives with Tecno-Adapt technology

TECHNO-ADAPT TECHNOLOGY ENSURES



WHITENESS

Select premium aggregates for ultra white finish



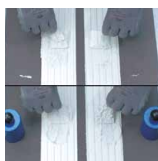
COVERAGE

Low density formulation for higher yield



FINESSE

Ultra fine material providing excellent workability



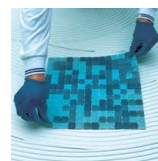
OPEN TIME

More time for installing & rectifying tiles



WORKABILITY

Less fatigue for the applicator



MULTI-FORMAT

Suitable for most types of tiles and stones



BETTER CREAMINESS

Smooth consistency for seamless application



FLUID THIXOTROPY

For exceptional user experience



FLEXIBLE

Suitable for demanding applications



MULTI-SUBSTRATE

Compatible with a variety of substrates



4000/4001

GREY

WHITE

High strength deformable adhesive for interior and exterior tiles and natural stones



DESCRIPTION

High strength deformable adhesive made of mixed bonding agents with reduced sliding and expanded open time, for installation of all types of tiles & natural stones on interior & exterior floor & wall; ideal for areas exposed to extreme climatic conditions and vibrations.

FEATURES & APPLICATIONS



To be applied on interior and exterior walls and floors at any height



Suitable for all types of tiles & natural stones



No need to wet tiles or substrates thanks to its high water-retaining capacity



Long open time. Allows rectification



Tile on Tile Application



Reduced sliding. Excellent initial adherence

SUBSTRATES

- Conventional cement-based substrates.
- Indoor & outdoor cladding and flooring of tiles & natural stones.
- Substrates must be resistant, stable, sound and clean, free of dust, demolding agents, organic products, etc.
- All substrates must have the appropriate flatness. Otherwise, smooth down up to 5 mm with the same product 48 hours prior to bonding.
- For greater thickness, use traditional dry mortars or levelling paste.

- In case of hot or windy weather conditions or when applying over absorbent substrates, it is advisable to wet the substrate and wait till the thin layer of water disappears.
- Do not apply on clay or on paint.

INSTRUCTIONS FOR USE

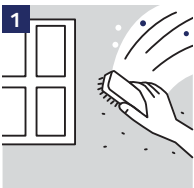
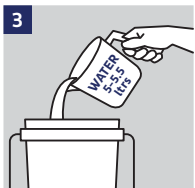
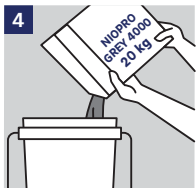
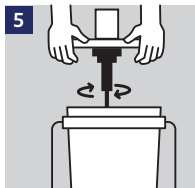
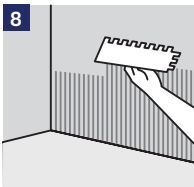
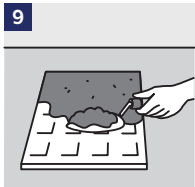
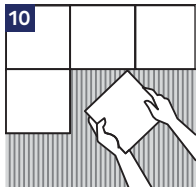
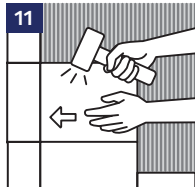
- Add water and mix mechanically until it takes on an even and workable consistency.
- Let the mixture stand for 5 minutes and remix.
- Spread the mixed product on the substrate with a trowel to a maximum surface area of 2m².
- Spread with a notched trowel to adjust thickness (see chart).
- Lay the tiles/natural stones, press and make small rotation movements to ensure that the glue gets in total contact with both surfaces.
- Observe construction joints (expansion, contraction, fraction, perimeter corner joints) and the joints between the cement slabs (minimum 2 mm).

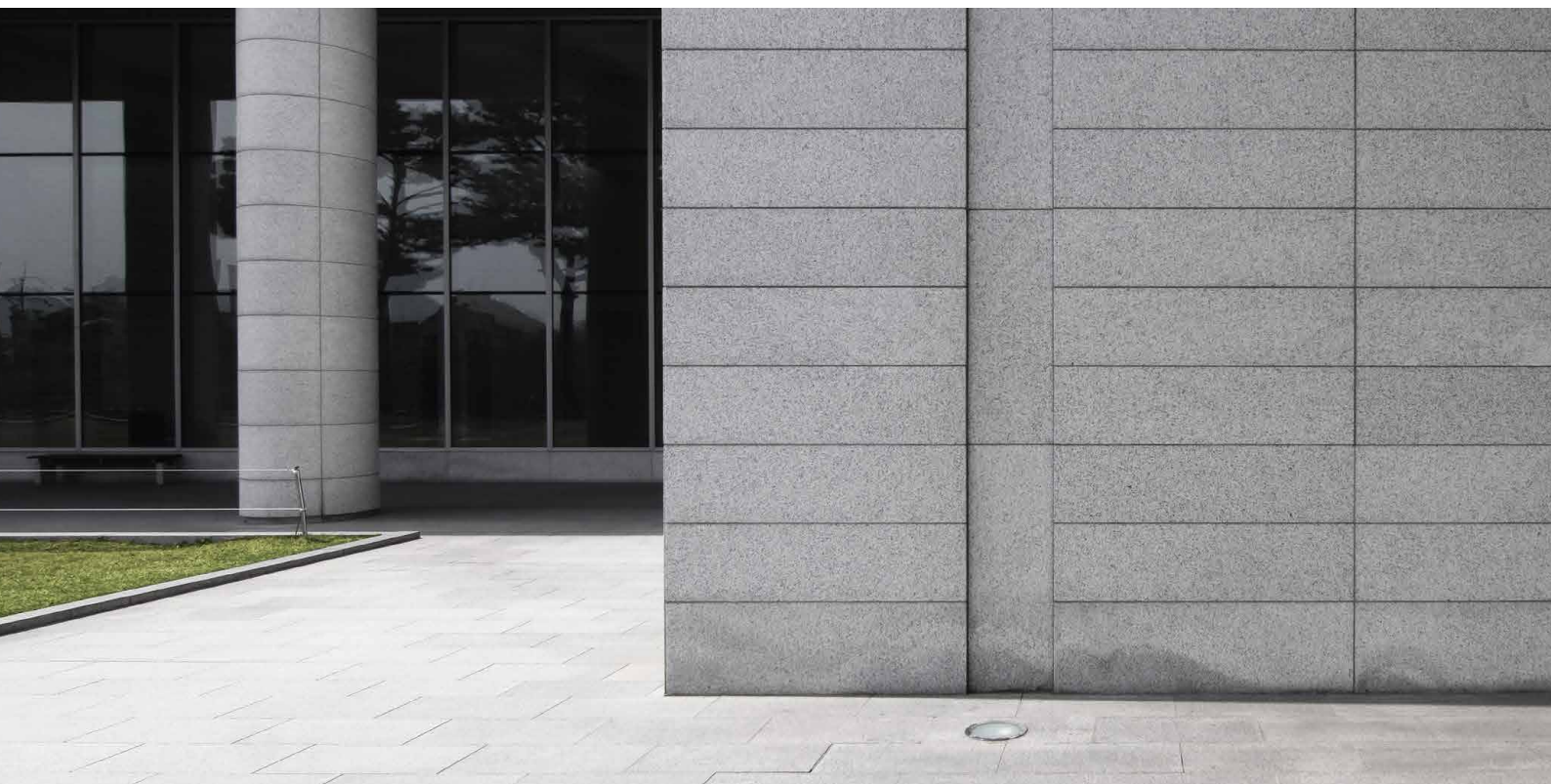
- Joints should be grouted 24 hours after if on vertical surfaces, and 48 hours after if on floorings. Use Roff Starlike for filling the joints.

NOTE

For better results lay tiles as soon as possible after spreading.

HOW TO USE

 1 Clean the surface	 2 Surface saturation with water (SSD condition)	 3 Add water first	 4 Add power to water	 5 Mix it with mixer	 6 Check material consistency
 7 Wait 5 mins. and remix before use	 8 Spread adhesive with notch trowel	 9 Back Buttering	 10 Place tiles within open time	 11 Move tiles opposite to notches & tap gently, Wait 24 Hrs	 12 Fill joints with Roff Starlike



CAUTIONS & RECOMMENDATIONS

- Do not apply below 5°C nor above 35°C.
- Do not apply when there is a risk of frost, rain, strong wind or direct sunlight.
- Do not apply in areas where water may accumulate.
- Under extreme weather conditions (gusty winds or high temperatures) drying may occur faster.
- On interior floorings larger than 15 m², it is advisable to keep a free perimeter expansion joint between the floor and the wall or pillar, hidden by a baseboard.
- For plywood, drywall, glass or metal substrate & artificial stone, use Roff Masterfix.

- The swimming pool can be refilled after 7 days of applying the adhesive.
- The watertightness of the swimming pool must be ensured by the filling to check for leaks.

PACKAGING

20 kg

Coverage

2.5-3 m²/20 kg for 6 mm thickness

Shelf life

1 year in sealed original packaging, sheltered from weather conditions and humidity.

TECHNICAL DATA

(STATISTICAL DATA OBTAINED UNDER STANDARD CONDITIONS)

Aspect	Grey/ White Powder
Apparent density of powder	1.4 ± 0.2 g/cm ³
Density of mixed product	1.6 ± 0.2 g/cm ³
Mixing Ratio (Powder : Water)	1 : 0.24 (Grey) / 1 : 0.30 (White)
Adjustment time	Approx. 30 min. (depending on weather conditions)
Open Time	Approx. 30 min. (depending on weather conditions)
Pot Life	Approx. 2 hours (depending on weather conditions)



PERFORMANCE PROPERTIES AS PER EN 12004 (C2TES1)

TESTING PROPERTIES	REQUIREMENT	TEST RESULT
a) Initial tensile adhesion strength	$> 1.0 \text{ N/mm}^2$	Complies
b) Tensile adhesion strength after water immersion	$> 1.0 \text{ N/mm}^2$	Complies
c) Tensile adhesion strength after heat ageing	$> 1.0 \text{ N/mm}^2$	Complies
d) Tensile adhesion strength after freeze-thaw cycles	$> 1.0 \text{ N/mm}^2$	Complies
e) Extended open time at 30 minutes (E)	$\geq 0.5 \text{ N/mm}^2$	Complies

PERFORMANCE PROPERTIES AS PER IS 15477: 2019 (TYPE 3 'T' S1)

TESTING PROPERTIES	REQUIREMENT	TEST RESULT
a) Tensile Adhesion at dry Condition, after 28 days	$\geq 1.5 \text{ N/mm}^2$	Complies
b) Tensile Adhesion at Wet Condition	$\geq 1.0 \text{ N/mm}^2$	Complies
c) Shear Adhesion at Dry Condition	$\geq 1.5 \text{ N/mm}^2$	Complies
d) Shear Adhesion at Wet Condition	$\geq 1.0 \text{ N/mm}^2$	Complies
e) Shear Adhesion at Heat Ageing	$\geq 1.0 \text{ N/mm}^2$	Complies
f) Deformability	$> 2.5 \text{ mm} \ \& \ < 5 \text{ mm}$	Complies

NOTE

The instructions for use are given according to our tests and knowledge and do not imply any commitment by Pidilite Grupopuma nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

Pidilite Grupopuma Manufacturing Ltd. is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of Pidilite Grupopuma Manufacturing Ltd exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process. In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question. The values obtained by Pidilite Grupopuma Manufacturing Ltd products or its constructive solutions that, as the case may be, are determined by the EN & IS standards or any other regulation that applies to it in each case refers exclusively to the conditions specifically stipulated in said regulation and that are referred to, among others, to certain characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation

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The product technical specifications and information on the system detailing mentioned in the technical data sheet and system methodology must be observed.

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