

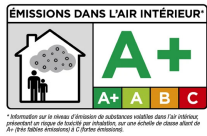
# MONOTACK PLUS

One-component adhesive for tiles



**CE marking:**

→ EN 12004 • Designation: C2TE



**Certifications:**

- VOC - French Decree nr 321/2011 - Class: A+

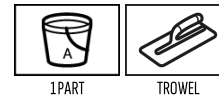
**TECHNICAL FEATURES**



**FIELD OF APPLICATION**



**APPLICATIONS**



**Description**

MONOTACK PLUS is a mono-component adhesive for tiles made with cement, selected-grain quartz sand, resins and special additives.

MONOTACK PLUS is suitable for overlapping bonding of ceramics, stoneware, clinker, tiles etc... and is designed for adhesive thicknesses up to 5 mm.

MONOTACK PLUS can be prepared by mixing with the sole addition of clean water when applied. In addition to being highly workable, the product features high adhesiveness and thixotropy, and excellent open time. After ripening, MONOTACK PLUS demonstrates excellent frost resistance.

**CE Marking**

► **EN 12004**

MONOTACK PLUS meets the requirements of EN 12004-1 "Ceramic tile adhesives-Part 1: Requirements, evaluation and verification of constancy of performance, classification and marking" and EN 12004-2 "Ceramic tile adhesives-Part 2: Test methods" with designation:

→ C2TE

- Improved cementitious adhesive (C) (2) for wall and floor installation, indoor and outdoor.
- Adhesive with reduced slip (T).
- Adhesive with extended open time (E).

**Certifications**

► **VOC - French Decree nr 321/2011**

MONOTACK PLUS meets the requirements for VOC emissions in indoor environments according to the French Regulation:

→ A+ (*very low emission*).

**Colour**

MONOTACK PLUS is available in the following versions:

- white
- grey

**Field of application**

► MONOTACK PLUS can be used on the following substrates:

- On walls and ceilings indoors, on traditional substrates covered with civil plaster, painted plaster (after checking the adhesion of the paint layer).

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- Rigidly supported plasterboard.
- Premixed or traditional screeds and self-levelling screeds.
- Gypsum, anhydrite and wood screeds, after treatment with RICRETE 1C.
- External walls in cement plaster or mortar.
- Indoor or outdoor floors and screeds made of sand and cement that have been sufficiently seasoned (e.g. 1 month for 6 cm thick screeds).
- Radiant floors.
- Floors that are already tiled.
- ▶ MONOTACK PLUS is suitable for the installation of:
  - Stoneware, porcelain stoneware and clinker tiles.
  - Cooked.
  - Insulating panels (such as polystyrene foam, polyurethane foam, rock wool, glass wool) and sound-absorbing panels such as Eraclit®, etc. (stitch bonding).
- ▶ MONOTACK PLUS is not suitable for gluing on:
  - Concrete subject to high shrinkage, e.g. thin-walled industrial floors.
  - Supports with excessive movement.
  - Linoleum and PVC without first checking the adhesion to the substrate. If the test is positive, wash the coating with STRIPPER and prime with RICRETE 1C.
  - Rubber flooring.
  - Galvanized sheets or aluminum.

## General preparation of the laying surface

- Carry out a thorough cleaning of the substrate by removing incoherent parts, oils, greases, paints and anything that may prevent correct adhesion of the adhesive; Wait for the substrate to dry before proceeding with the application of the adhesive.
- Check that the new substrates have matured correctly: the screeds must have exhausted their hygrometric shrinkage and the plasters must have been made at least 15 days ago (2 cm thick).
- To speed up the maturation of a new sand and cement screed, add FAST FLUID 300 to the mixture.
- If thin coatings are glued, the splitting joints made during casting can be eliminated by sewing (see BETONGUAINA data sheet).
- Any moving cracks should be eliminated by stitching.
- If there is more than 5 % moisture in the substrate (measured by the carbide method, ASTM D4944) treat the substrate with SOLID.
- In the presence of rising damp from the substrate, apply Q-PRIMER and Q-RASANTE dusted with 0.3-0.9 mm NATURAL QUARTZ sand and then sanded and dedusted.
- In case of substrates with signs of surface chalking, consolidate the substrate with SW SOLID diluted with 5 parts by weight of water.
- In the case of substrates with evident signs of chalking, even in depth, the day before the adhesive is laid, consolidate with NORPHEN FONDO IGRO by sprinkling fresh sand of NATURAL QUARTZ 0.1-0.6 mm.
- In case of overlapping on old shiny tiles it is recommended to abrade the surface with a diamond cup wheel.

## Specific preparation of the laying substrate

- ▶ *To smooth a laying surface INDOORS*
  - On the wall, use RASANTE 1100 or 1200.
  - On the floor, use LEVEL FINO for filler thicknesses up to 10 mm.
  - On the floor, use LEVEL HB for overlay thicknesses up to 30 mm.
  - On the floor, on sloping surfaces, use GROVE PRIMER ECO and GROVE MASSETTO.
- ▶ *To smooth a laying surface OUTDOORS*
  - On the wall, use RASANTE 1100, 1200 or RASANTE 2000 2K.
  - On the floor, use GROVE PRIMER ECO and GROVE MASSETTO.
- ▶ *To smooth a laying surface OUTDOORS*
  - On the wall, use RASANTE 1100, 1200 or RASANTE 2000 2K.
  - On the floor, use GROVE PRIMER ECO and GROVE MASSETTO.

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## Product preparation

- Pour the mixing water (7.0 L/bag for GREY; 7.5 L/bag for WHITE) into a suitable serving container.
- Insert the powder sticker.
- Mix with a mixer at low speed (500-600 rpm) until the mixture is homogeneous and lump-free. At this stage the product is very dense, as if there is no more water: this is a normal behavior of MONOTACK PLUS.
- DO NOT ADD WATER and wait 5 - 7 minutes for it to rest.
- After 5 - 7 minutes, stir the dough again to obtain a paste of the appropriate consistency and ready for application.

## Product application

### ► Applying the adhesive

- To effectively wet the laying surface, always apply a thin, homogeneous layer of adhesive with the smooth side of the spatula.
- Apply the desired thickness by choosing a tooothing trowel suitable for the size of the tiles, as specified below.

### ► Choice of spatula and thickness adjustment

- Mosaic and small sizes → notched trowel nr 4
- Sizes up to (30x30) cm → notched trowel nr 5
- Large sizes, over (30x30) cm → notched trowel nr 4

### ► Mixture checks

- Unfavorable environmental conditions such as beating sun, dry wind, high temperatures, etc. and absorbent underlays can reduce the open time by MONOTACK PLUS to even a few minutes.
- Under these conditions, continually check that the adhesive is still fresh, is able to wet the coating and has not formed surface skin: if not, revive the adhesive mix by remixing it and re-spreading it with the notched trowel. Do not add water to the compound.

### ► Couplings

- Any splitting joints should be made every approximately 25 m<sup>2</sup> indoors and 10-12 m<sup>2</sup> outdoors.
- For corridors and balconies, consider a joint every approximately 6-8 m in length.
- The structural and expansion joints of the supports must be brought back to the surface.

### ► Laying the tile

- In strong summer heat and in the presence of dust in the area where the substrate is in contact with the wrong side of the tile, lightly moisten the surfaces with water.
- Proceed with the laying of the tiles, taking care to apply pressure (also by tapping with a rubber mallet) to ensure that the adhesive wets and adheres to as much surface as possible.
- Always proceed with double coating for sizes larger than (25x25) cm, in conditions of heavy loads, immersion in water and for outdoor installation.
- Adjust the tiles within 60 minutes.

## Consumption

type of application	minimum consumption	maximum consumption	u.m.	notes
All surfaces and materials to be bonded	2	5	kg/m <sup>2</sup>	(1)

(1) Do not exceed, in any case, 7 kg/m<sup>2</sup>.

## Tool cleaning

- Fresh product: cleaning with water (also hydrowashing).
- Hardened product: mechanical removal.

## Useful tips for laying

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- Do not apply MONOTACK PLUS on substrates that are too hot due to the high summer temperature. In this case, moisten with water to cool the surface and lay preferably in the afternoon.
- Do not apply MONOTACK PLUS to surfaces that are frozen or are feared to freeze in the next 24 hours.
- Do not apply MONOTACK PLUS directly to gypsum and anhydrite-based substrates, but only after treating them with RICRETE 1C.
- In the case of areas subject to washout (such as bathrooms, shower rooms, etc.), cover the substrate with NORTIG 15, NORTIG 15 FIBRATO or BETONGUAINA BASEMENT before gluing.
- The ideal product for grouting a coating glued with MONOTACK PLUS is MONOTACK COLORFILL.

## Technical Data

► PRODUCT IDENTIFICATION DATA		value
Consistency	-	powder
Solid residue	-	100 %
Maximum grain size, EN 933-1	mm	0,8
► APPLICATION DATA AND FINAL PERFORMANCE		value
Mixing water (GRIGIO version)	-	28 %
Mixing water (BIANCO version)	-	30 %
Bulk density of fresh mortar, EN 1015-6	kg/L	1,65 ± 0,05
Mixture pot life	hours	> 8
Open time, EN 12004-2	min	> 30
Application temperature	°C	from +5 to +35
Operating temperature	°C	-30 to +90
Adjusting time	min	60
Minimum curing time before sealing joints (wall)	hours	4 - 8
Minimum curing time before sealing joints (floor)	hours	24 - 36
Set to foot traffic (at +23°C)	hours	24 - 36
Minimum commissioning time (at 23°C, 50% RH)	days	12 - 14
► TECHNICAL DATA IN ACCORDANCE WITH EN 12004		value
Initial tensile adhesion at 28 days (GRIGIO version), EN 12004-2	MPa	1,9 ± 0,1
Initial tensile adhesion at 28 days (BIANCO version), EN 12004-2	MPa	1,5 ± 0,1
Tensile adhesion after thermal ageing (GRIGIO version), EN 12004-2	MPa	1,6 ± 0,1
Tensile adhesion after thermal ageing (BIANCO version), EN 12004-2	MPa	1,6 ± 0,1
Tensile adhesion after immersion in water (GRIGIO version), EN 12004-2	MPa	1,5 ± 0,1
Tensile adhesion after immersion in water (BIANCO version), EN 12004-2	MPa	1,7 ± 0,1
Tensile adhesion after freeze-thaw cycles (GRIGIO version), EN 12004-2	MPa	1,6 ± 0,1
Tensile adhesion after freeze-thaw cycles (BIANCO version), EN 12004-2	MPa	1,7 ± 0,1
Reaction to fire (euro-class) for thickness less than 20 mm, EN 12004-1 par. 4.4.3	-	E WFT

## Product storage

- 12 months in the original closed packaging, in a dry, covered environment, protected from sunlight and at a temperature between +5°C and +35°C.
- Keep in a dry place.

## Packaging

VARIANT	PACKAGE	ADR	PACKAGE / PALLET	COMPONENTS	NOTES
WHITE	bag - 25 kg	NO	48 bags		-
GREY	bag - 25 kg	NO	48 bags		-

### ADR legend:

# MONOTACK PLUS

NO = NON-DANGEROUS goods

P\* = DANGEROUS goods packed in limited quantities (packed as per ADR Chapter 3.4)

Si = DANGEROUS Goods

## LEGAL NOTES

Any advice concerning the methods of use of our products reflects the current state of knowledge and does not imply any guarantee and/or responsibility as to the outcome of the application. Consequently, the customer must verify the product's suitability for the intended use and purposes by testing the product in advance. The Internet website [www.nordresine.com](http://www.nordresine.com) contains the latest revision of this technical sheet: in case of any doubts, verify the date of revision (where missing, use the date of issue) by consulting the "PRODUCTS" section.

## EDITION

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