



## MONOTACK H BOND

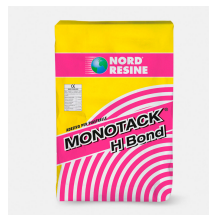
Mono-component adhesive for tiles for thicknesses up to 15 mm

CE marking:

• EN 12004-1 - Designation: C2TES2

Certifications:

• VOC - Decreto francese 321/2011 - Classe: A+



### TECHNICAL SPECIFICATIONS



### FIELD OF APPLICATION

### APPLICATIONS

### Description

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

MONOTACK H BOND is specially formulated for laying lithic, ceramic and vitreous coverings of any format, also superimposed, when it is necessary to have high deformability of the system for adhesive layers up to 15 mm thick. Due to its deformability characteristics, MONOTACK H BOND can also be used for laying with direct bonding of the tiles on the compatible waterproof covering.

MONOTACK H BOND 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. Once cured, MONOTACK H BOND boasts excellent frost resistance.

### CE marking

► EN 12004-1 + EN 12004-2

MONOTACK H BOND fulfils the requirements of the EN 12004-1 standard "Adhesives for ceramic tiles - Part 1: Requirements, evaluation and verification of the performance persistence, classification and marking" and of the EN 12004-2 standard "Adhesives for ceramic tiles - Part 2: Test methods", with the following designation:  
→ C2TES2

- Improved (2) cementitious adhesive for laying on floors and walls, in interiors and exteriors.
- Adhesive with reduced slip (T).
- Adhesive with extended open time (E).
- Highly deformable adhesive (S2).

### Certifications

► VOC - Decreto francese 321/2011 - Classe: A+

MONOTACK H BOND soddisfa i requisiti relativi all'emissione di VOC in ambienti interni, secondo la French Regulation (Decreto n° 2011-321 del 23 marzo 2011 e della Delibera del 19 aprile 2011), rientrando in classe A+ (emissione molto bassa).

### Colour

MONOTACK H BOND is available in the following versions:

- white
- grey

### Field of application

# MONOTACK H BOND

► MONOTACK H BOND can be used on the following laying supports:

- For indoors walls and ceilings, on conventional supports covered with two-coat plaster, painted plaster (after checking the adhesion of the paint), even partially loose or rough, without having to level the application surface beforehand.
- Plasterboard (rigidly supported).
- Fibre cement walls and cement blocks.
- Ready-made or conventional screeds and self-levelling screeds.
- Gypsum, wood and anhydrite screeds, prior treatment with RICRETE 1C.
- Concrete
- Radiant floors.
- Tiled floors.
- Floors and walls waterproofed with BETONGUAINA and BETONGUAINA.S, NORTIG (all types) and other mono-component polymeric systems in dispersion.

► MONOTACK H BOND is suitable for laying:

- Single-fired and double-fired ceramic tiles (of every type and size) both indoors and outdoors.
- Stoneware, porcelain stoneware and clinker tiles.
- Cotto.
- Stone materials (provided it is stable and insensitive to humidity) both indoors and outdoors.
- Objects with a highly concave profile.
- Ceramic and vitreous mosaics on meshes.
- Insulating panels made of EPS or XPS expanded polystyrene, expanded polyurethane, rock wool, glass wool (point adhesion).
- Sound-absorbing panels type Eraclit® etc. (point adhesion).

► MONOTACK H BOND is not suitable for bonding on:

- Marble and natural stone subject to staining with water and/or to efflorescence.
- Concrete with less than 3 months of seasoning or prefabricated concrete.
- Anhydrite, gypsum or wooden screed without pre-treatment with RICRETE 1C.
- Plasterboard without priming with RIVLATEX or BETON TACK.
- Linoleum and PVC without having first verified the adhesion on the support. In case of a positive outcome, wash the coating with STRIPPER and prime it with RICRETE 1C.
- Pavimenti in gomma. • Pavimenti in gomma.
- Galvanised or aluminium sheets.

---

## Advantages

---

### General preparation of the laying support

- Thoroughly clean the substrate by removing any loose parts, oil, grease, paint and anything else that may prevent proper adhesion; wait for the support to dry before applying the adhesive.
- Verify that new supports have cured correctly: screeds must have terminated their hygrometric shrinkage and plasters must have been made by at least 15 days (for 2 cm thickness).
- To accelerate the curing of a new sand and cement screed, add FAST FLUID 300 to the mix.
- If thin coverings are bonded, the fractionation joints made during the cast can be eliminated with stitching (see technical sheet of BETONGUAINA).
- Any moving cracks must be eliminated through stitching.
- In case of dampness in the support exceeding 5% (measured with the carbide method, ASTM D4944), treat the support with SOLID.
- If the substrate is subject to rising damp, apply Q-PRIMER and Q-RASANTE sprinkled until saturation with 0.3–0.9 mm NATURAL QUARTZ sand and then sand and dedust the surface.
- In case of supports with superficial chalking, consolidate the support with SW SOLID diluted with 5 parts by weight of water.
- In case of supports with evident signs of chalking, even deep down, the day before applying the adhesive, consolidate the surface with NORPHEN FONDO IGRO by sprinkling 0.1–0.6 mm NATURAL QUARTZ on the wet surface.
- In case of bonding on top of old polished floors, the surface should be abraded with a diamond grinding cup.

# MONOTACK H BOND

## Preparing the product

- Pour the mix water (7.0 l/bag) into a suitable service container.
- Add the powder adhesive.
- Mix using a low-speed mixer (500–600 rpm) until obtaining a homogeneous lump-free mixture. • During this phase, the product appears to be very dense, as if it were lacking water: this is normal for MONOTACK H BOND.
- DO NOT ADD WATER and wait 5–7 minutes.
- After 5–7 minutes, mix the mixture again until obtaining a paste of adequate consistency that is ready for being applied.

## Application of the product

- Application of the adhesive
  - For effective wetting of the laying substrate, always apply a thin homogeneous layer of adhesive with the smooth side of the trowel.
  - Apply the desired thickness using a notched trowel suited to the size of the tiles, as explained below.
- Choice of the trowel and thickness adjustment
  - Mosaics and small formats → TROWEL no. 4
  - Sizes up to (30x30) cm → TROWEL no. 5
  - Large sizes, over (30x30) cm → TROWEL no. 6.
- Joints
  - Any fractionation joints should be made roughly every 25 m<sup>2</sup> inside and 10–12 m<sup>2</sup> outside.
  - For corridors and balconies, consider placing a joint every 6–8 m of length.
  - The structural and expansion joints of the supports must be lined up on the surface.
- Tiling
  - In very hot summer conditions and when there is dust where the substrate and the back of the tile make contact, wet the surfaces slightly with water.
  - Lay the tiles, applying pressure (even tapping them with a rubber mallet) so that the adhesive wets the entire back part of the tiles and the substrate.
  - Always back-butter tiles larger than 30x30 cm that are subject to heavy loads, immersed in water, laid on radiant floors or outdoors: the mix must nonetheless always wet the entire back surface of the tile.
  - Complete the registration within 50 minutes.
- Checks on the mix
  - Adverse weather conditions such as beating sunlight, dry wind, high temperatures, etc. and absorbent substrates can lower the open time of MONOTACK H BOND even by a few minutes.
  - In these conditions, continuously check whether the adhesive is still fresh, is able to wet the coating and that no film has formed on the surface: otherwise, mix the product again and re-apply it using the notched trowel. Do not add water to the mix.

## Consumption

For all surfaces and materials to be bonded

type of application	minimum consumption	maximum consumption	UoM	dilution
To create a 3 mm-thick bonding layer on a regular substrate	3,5	4,0	kg/m <sup>2</sup>	-
To create a 9 mm-thick bonding layer on a regular substrate	11,0	11,5	kg/m <sup>2</sup>	-

## Cleaning of tools

- Wet product: clean with water (including a power wash).
- Hardened product: remove mechanically.

# MONOTACK H BOND

## Useful application tips

- Do not apply MONOTACK H BOND on supports that are too hot due to the high summer temperatures. In such case, wet the surface with water to cool it and apply the product preferably in the afternoon.
- Do not apply MONOTACK H BOND on frosted surfaces or surfaces that are expected to frost within the next 24 hours after application.
- Do not use MONOTACK H BOND on marble and natural stone slabs subject to efflorescence or staining.
- Do not use MONOTACK H BOND on natural or engineered stone slabs subject to movements caused by humidity.
- Do not apply MONOTACK H BOND directly on substrates made with gypsum and anhydrite, but only after first treated them with RICRETE 1C.
- If the area is subject to frequent wetting with water (bathrooms, showers, etc.), coat the substrate with NORTIG 15, NORTIG 15 FIBRATO or BETONGUAINA BASEMENT before applying the adhesive.
- The ideal product for grouting a covering bonded with MONOTACK H BOND is COLORFILL FLEX.

## Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Consistency	-	powder
Solid residue	-	100 %
Grain size, EN 933-1	mm	0,315
► APPLICATION DATA AND FINAL PERFORMANCES	UoM	Value
Mix water	-	28 %
Density of the mix, EN 1015-6	kg/L	1,65 ± 0,05
Pot-life of the mix	hours	> 8
Open time, EN 12004-2	min	> 30
Application temperature	°C	from +5 to +40
Operating temperature	°C	from -30 to +90
Registration time	min	50
Minimum curing time for grouting (on wall)	hours	4-8
Minimum curing time for grouting (on floor)	hours	24
Walk-over time (at +23°C)	hours	24-36
Minimum commissioning time (at 23°C, 50% R.H.)	hours	12-14
► TECHNICAL DATA IN CONFORMITY TO EN 12004	UoM	value
Initial tensile adhesion at 28 days, EN 12004-2	MPa	2,3 ± 0,1
Tensile adhesion after thermal ageing, EN 12004-2	MPa	1,9 ± 0,1
Tensile adhesion after immersion in water, EN 12004-2	MPa	1,1 ± 0,1
Tensile adhesion after freeze-thaw cycles, EN 12004-2	MPa	1,8 ± 0,1
Transversal deformation, EN 12004-2	-	highly deformable (S2)
Fire reaction (Euroclass) for thicknesses below 20 mm, EN 12004-1, Par. 4.4.3	-	E WFT

## Storage of the product

- 12 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +35°C.
- Protect the product against humidity.

## Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
BIANCO	25 kg bag	NO	48 sacchi	
Grey	25 kg bag	NO	48 sacchi	

Legenda ADR:

# MONOTACK H BOND

NO = merce NON PERICOLOSA

---

## LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website [www.nordresine.com](http://www.nordresine.com) contains the latest revision of this datasheet.

## EDITION

Issue date: 10.12.2014

Revision: 20.02.2018