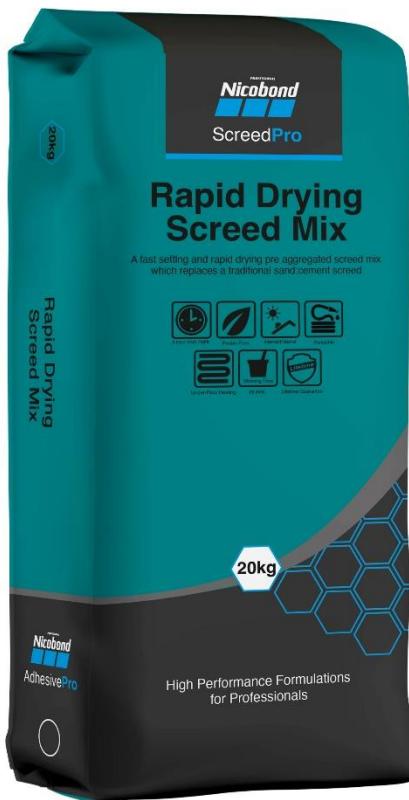


Reference Number	NCR0125344
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Previous Revision	N/A

ScreePro Rapid Drying Screed Mix

- Pre-blended with graded sands - just add water
- Fast-track screed that facilitates early installation of floor finishes
- Rapid Setting and Drying
- Walkable in 3 hours
- Can receive Ceramic Tiles direct in 3 hours at 20°C
- Ready to receive smoothing compounds after 24 hours regardless of depth
- Resilient Floorcoverings/LVT's bonded after 24 hours at 20°C
- BS EN 13892-2 CT-40-F5

- Can be used to create bonded, unbonded, floating and heated protein free screeds
- Suitable for internal and external installations
- Shrinkage controlled
- Suitable for pumped applications
- Will pass the BRE In-Situ Crush Resistance test within 24 hours
- Designed to achieve the minimum required N/mm² strength within 24 hours that is comparable to traditional cement-mixed screeds at 28 days
- Higher compressive strength at lesser depths than traditional sand/cement screeds



EN 13813:2002 Test Methods

EN 13892-2	Determination of flexural and compressive strength after 28 days
Compressive Strength at 28 days	> 40.0 N/mm ² (BS EN 13892-2)
Flexural Strength at 28 days	> 5.0 N/mm ² (BS EN 13892-2)

Application Data	
COLOUR	Grey
MIXING RATIO	25kg powder to 2.5 Litres of clean water
MIXING	Place the required clean water into a Nicobond mixing bucket or another ridged sided vessel. Steadily pour in the powder then mechanically mix until a lump free semi dry mortar is achieved. Use immediately.
CONSISTENCY OF MIX	Slump free mortar consistency
BED THICKNESS	Bonded 15-100mm depth Floating from 65mm Domestic, 75mm Commercial Unbonded from 40mm
APPROXIMATE COVERAGE PER 25KG BAG	Per 25kg bag approximate consumption: 15mm bed depth - 4.1m ² - 24 bags per 100m ² 40mm bed depth - 1.6m ² - 63 bags per 100m ² 75mm bed depth - 0.83m ² - 120 bags per 100m ²
POT LIFE	Approximately 35-45 minutes at 20°C
SETTING TIME	Fix tiles in 3 hours, resilient floor coverings in 24 hours at 20°C
READY FOR LIGHT FOOT TRAFFIC	3 hours
INSTALLATION TEMPERATURE	Minimum 5°C max 30°C
IN SERVICE TEMPERATURE	-20°C to 70°C
SHELF LIFE	At least 12 months from date of packing when kept clear of the ground and stored under dry conditions. Protect from frost.
PACKAGING	25kg poly lined paper sack.

ScreedPro Rapid Drying Screed Mix

BRITISH STANDARD GUIDELINES:

All aspects of any installation of the Nicobond range of products must be carried out in compliance with the directives of the relevant British Standard requirements of BS8203, (Installation of Resilient Floorcoverings), BS 8204, (Screeds, Bases and In-situ flooring), BS5325 (Installation of Textile Floorcoverings) and BS5385 codes of practice for floor tiling. With reference also to the Contract Flooring Association Guide to Contract Flooring, and The Tile Association guidelines. Latest NHBC guidance must also be followed where applicable. Complies with EN standards and supplementary specifications.

DESCRIPTION:

Nicobond ScreedPro Rapid Drying Screed Mix is a technologically advanced, fast-track, high performance, rapid-setting and drying pre-blended with graded sands screed mix that when mixed produces a screed that facilitates the early installation of floorcoverings for most installations regardless of placement depth. ScreedPro Rapid Drying Screed Mix is suitable for internal and external applications but should not be used as a wearing layer and should be covered with a suitable smoothing compound and/or a recognised floor covering to protect damage or ingress of contamination and moisture which could prove detrimental to the products performance.

USES:

ScreedPro Rapid Drying Screed Mix can be used in most commercial and domestic installations and being protein-free is ideal for use in factories, garages, schools, retail environments, residential and care homes, and biologically sensitive areas such as Hospital theatres. ScreedPro Rapid Drying Screed Mix is designed for use in bonded, unbonded, floating and heated screeds and areas where standing water may be in evidence, such as swimming pools and changing /shower areas.

SUBSTRATE PREPARATION:

BONDED SCREEDS:

When receiving a bonded screed, any new concrete subfloor must be at least 6 weeks old, thus allowing for the initial drying shrinkage to have occurred prior to the application of the screed. The concrete surface must be prepared using the appropriate mechanical equipment to expose the coarse aggregate and be free from all contamination or debris liable to impair adhesion. Note: certain waterproofing additives such as "Caltite" are very non-porous will require the use of an epoxy resin slurry bonding coat prior to the application of a bonded screed. If in any doubt, contact the Nicobond Technical Services for advice. The structural concrete base must be tested for moisture as per BS8203/4 and $\geq 75\%$ then a 2-coat application of Nicobond DPM One Coat Membrane and Primer with the 2nd coat of DPM and Primer broadcast with Nicobond ScreedPro Sand NR5 kiln-dried aggregate, as per the relevant Technical Data Sheet. Once dry, all loose aggregate can be swept and vacuumed away, and the ScreedPro Rapid Drying Screed Mix applied to levels.

UNBONDED SCREEDS:

The concrete sub-base must have an effective base damp proof membrane. It should be prepared, swept and vacuumed to ensure removal of any sharp matter that could penetrate the damp proof/slip membrane. If the floor is uneven or has sharp protrusions or hollows it should be pre-smoothed. Before the application of a levelling compound the concrete must be free from all contamination that may impair adhesion. If pre-smoothing is deemed necessary, level the floor using Nicobond ScreedPro Fibre Flex or Rapid Latex Fibre No Ammonia and allow a minimum of 12 hours drying.

For unbonded screeds, a suitable moisture barrier such as a Visqueen or similar product should be installed to the surface of the concrete structural slab as per the manufacturer's instructions prior to the placement of the ScreedPro Rapid Drying Screed Mix. Alternatively, dependent on the age of the concrete slab, and the Relative Humidity, Nicobond DPM One Coat Damp Proof Membrane and Primer or Moisture Vapour Suppressant (MVS) can be applied subject to the Technical Data Sheets and instructions within. Care must be taken not to damage the membrane during the installation of any products placed above it.

FLOATING SCREEDS:

For the installation of a floating screed, the preparation is as per the instructions for an unbonded screed. A separating membrane can be installed above the insulation prior to applying the ScreedPro Rapid Drying Screed Mix. Particular attention should be paid to the specified performance criteria of the insulation boards ensuring that they are appropriate for the end use and that they have been installed to the manufacturer's instructions.



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ScreedPro Rapid Drying Screed Mix

HEATED SCREEDS:

The method for heated screeds can vary dependent on the type of UFH system that is to be installed. If applied to insulation the process is as per the instructions for floating screeds. For systems that are laid on to trays or mats the manufacturers Technical Data Sheets should be consulted. Where underfloor heating pipes are installed, these must have a minimum of 25mm coverage of ScreedPro Rapid Drying Screed Mix below the screed surface. Reinforcement mesh should be placed directly above the pipes.

The heating system must be commissioned to the manufacturer's instructions prior to applying the ScreedPro Rapid Drying Screed Mix. If the system is found to be working correctly with no leaks or loss of pressure, it must be shut down 48 hours prior to the commencement of the installation and must remain switched off during the application of ScreedPro Rapid Drying Screed Mix. The system must remain switched off after completion for a further 48 hours and then re-introduced to 5°C and increased by 5°C daily up to the operating temperature, which currently to comply with BS EN1264-2 is at maximum surface temperature of 27°C and 55°C water temperature, subject to individual manufacturer's instructions and Technical Data Sheets.

PREPARING THE AREA FOR LAYING SCREEDPRO RAPID DRYING SCREED MIX:

Once the area is free of any contamination, dust and debris, the perimeter and all columns, services and abutments should be addressed with a 1 cm thickness of a suitable flexible material. Felt board, polystyrene or cork are all suitable.

MIXING PROPORTIONS AND AGGREGATE REQUIREMENTS:

Nicobond ScreedPro Rapid Drying Screed Mix is mixed and applied in the same manner as traditional cement-based screeds however the working time will be greatly reduced between approximately 35- and 45-minutes dependent on air temperature and humidity.

MIXING:

Nicobond ScreedPro Rapid Drying Screed Mix is mixed and applied in the same way as mortar based on normal cement and sand except that the working time is reduced to approximately 45 minutes, which can be walked on and may receive ceramic tiled finishes after 3 hours and is dry enough after 24 hours to receive other floor coverings or a levelling screed prior to the installation of vinyl sheet. For 25kg of powder, place 2.5 Litres of clean water into a Nicobond mixing bucket or another ridged sided vessel. Steadily pour in the powder and mechanically mix until a lump free semi dry mortar is achieved. Mix to a normal semi dry screed mortar consistency. Note: Adding extra water may reduce strength development and nullify the rapid drying characteristic of the product.



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The working time of the mortar is approximately 35-45 minutes at 20°C, therefore application of a slurry coat (if required), mixing, application, compaction and trowelling off must proceed without delay. The amount of mortar mixed and the area to be screeded should be limited so that trowelling off and finishing can be completed within this time. Where a new bay is laid against a set and hardened screed it is recommended that the day work joints are vertical and treated with a slurry bonded coat as previously described with the new screed placed whilst the slurry bond coat is still wet.

PLACEMENT:

Bay joints and day work joints should be constructed as vertical butt joints and tie or dowel bars inserted and/or a slurry bonding should be applied on the vertical joints to tie in the fresh screed with the existing. This exercise will control independent curling or lippling of the screed bay. Movement joints should be brought through to the surface of the floor coverings and all layers terminated at either side. These are likely to be placed in door thresholds and underfloor heating areas.

The use of steel mesh (D49 or D98 as per BS4483) is common practice in unbonded and floating screeds to control shrinkage and prevent cracking within the screed, the use of polypropylene fibres incorporated at the time of mixing can also be used to control these issues. Mesh can increase the risk of delamination when used with screed depths of below 50mm and is not necessary in bonded screeds. The working time of the fresh mixed ScreedPro Rapid Drying Screed Mix, sand and aggregates at 20°C is approximately 35-45 minutes and should be placed immediately after adequate mixing (normally around 5 minutes per mix) on to a slurry coat (freshly applied), an epoxy or an aggregate blinded base for bonded screeds, or on to a separating layer for unbonded and floating screeds

Mixing, application, compaction and trowelling-off must be carried out immediately and it is vital that the amount of screed mixed and the areas to be screeded are limited and compatible for the setting and curing window of the mixed screed.

NB: ScreedPro Rapid Drying Screed Mix is not suitable as a final wearing surface or to directly receive floor paints and resin finishes.

TYPE 1 MOT TAMPED BASE: - Once 100 - 150mm type 1 MOT has been tamped and levelled in place, place a minimum of 50mm ScreedPro Rapid Drying Screed Mix bed. If using minimum thick 20mm thick porcelain apply Nicobond PatioPro Slurry Primer to the back face of the porcelain and lay directly into still wet Screed Mix and tap into place ensuring they are solid bed fixed without voids. Alternatively allow the Screed Mix to cure for minimum 3 hours at 20°C and then use a suitable Nicobond C2 tile adhesive to solidly bed the tiles.

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ScreedPro Rapid Drying Screed Mix

CLEANING:

Wash tools thoroughly with clean water immediately after application.

STORAGE:

This product must be stored clear of the ground, under dry conditions, out of direct sunlight. Protect from frost. If allowed to freeze N&C Building Products cannot guarantee the performance of the product.

See Nicobond "Tiling Products: The Directory" or Nicobond "Flooring Systems the directory" for full details of our extensive range of tiling and flooring products and tiling solutions. Refer to the latest version of our Technical Data Sheets and Safety Data Sheets to ensure compatibility before use, these can be downloaded from our website

www.ncnicobond.com

MANUFACTURERS WARRANTY:

Nicobond products are covered by our lifetime warranty. Whilst we strive to ensure that any advice, recommendations, or information provided in our literature are accurate and up to date, we have no control over the conditions under which our products are used. It is therefore the responsibility of the end user to ensure that the product and its application are suitable for the intended purpose. No warranty is given, nor liability accepted, beyond the assurance that the product supplied will conform to our written specifications. End users must consult the latest version of the Technical Data Sheet and Safety Data Sheet prior to use, both of which are available from our website or upon request. We do not accept any liability for workmanship or any consequential loss or damage.

HEALTH AND SAFETY:

Danger – Contains Portland Cement Klinker.

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects. Avoid breathing dust. Wash hands, forearms and face thoroughly after handling. Wear protective gloves, protective clothing, eye protection, face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor if you feel unwell. Specific treatment If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

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