

High performance products for tiling & flooring professionals

ScreedPro All Purpose CT-C16-F5

Key Features:

- Portland Cement free
- Rapid drying and curing: Allows for fast-track construction schedules, reducing downtime and accelerating project completion.
- Versatile application: Suitable for levelling substrates ranging from 2mm to 10mm in thickness, accommodating a wide range of flooring coverings.
- Exceptional flow properties: Self-levelling formulation ensures smooth and even distribution across the substrate, minimizing the need for manual intervention.
- Low shrinkage.

- Lower compressive strength - suitable for applying over existing bonded cement residues.
- Moisture tolerant.
- Contains both powder and liquid components.
- Fibre reinforced.
- No unpleasant ammonia smell.
- **Fix tiles 45 minutes at 20°C**
- **Unbonded floorcoverings from 45 mins at 20°C**
- **Bonded floorcoverings from 90 minutes at 20°C**
- Excellent adhesion: Bonds strongly to various substrates, including concrete, screed, plywood overlay, and existing floor coverings, ensuring reliable performance in diverse applications.



EN 13813:2002 Test Methods

EN 13892-2	Determination of flexural and compressive strength after 28 days
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The table should be used for guidance purposes only and all information given can be affected by the substrate texture and absorbency. The coverage given is based on a smooth non-absorbent subfloor.

Application Data

Colour	Beige
Mixing Ratio	20kg powder to 4.8kg liquid
Mixing	Shake the latex bottle thoroughly prior to pouring into a clean Nicobond Mixing Bucket or suitable rigid sided clean vessel. The powder should be added at a steady rate, whilst mixing at a high shear using a Nicobond whisk in a variable speed electric drill until a smooth lump free consistency is achieved.
Consistency of mix	Fluid mortar
Bed thickness	2mm to 10mm
Coverage	@3mm – 4-4.5m ² per unit/100m ² requires 22 units @6mm – 2-2.5m ² per unit/100m ² requires 44 units
Working Life	10 minutes @20°C
Walk on time	From 30 minutes @20°C
At 3mm thickness ready for Ceramic Tiles	45 minutes @20°C
Resilient floor coverings/LVT (Dependant on thickness)	Approx 45 minutes @20°C loose lay, Approx 90 minutes @20°C bonded
Ready For Light foot Traffic	From 30 minutes @20°C
Installation Temperature	Minimum 5°C
Operating Temperature	-20°C to 70°C
Packaging	Powder 20kg poly lined paper sack. Liquid 4.8kg plastic jerry can.

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Uses

British Standards - guidelines All aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floorcoverings) or BS 5325 (Installation of Textile Floorcoverings) and BS5385 code of practice for floor tiling. Complies with EN standards and supplementary specifications.

BS EN 13813 Classification CT-C16-F5

Description

ScreedPro All Purpose is a two-part low odour, fast drying and curing underlayment designed for smoothing uneven floors prior to the installation of floorcoverings. It consists of a Portland Cement free powder component containing a blend of special binders and carefully graded aggregates, fillers and pre-weighed gauging liquid polymer dispersion.

ScreedPro All Purpose can be used in domestic and commercial areas. It is ideal for use in factories, garages, shops, schools, care homes, biological areas etc.

ScreedPro All Purpose should always be covered and not used as a wearing substrate.

Application

Use mixed materials within 10 minutes. Trowel, float or use a spiked roller to apply the material onto the prepared subfloor to a between 2mm and maximum thickness of 10mm. Above 2mm thickness, the mixture will self-smooth during application. The 2mm minimum application depth applies to the highest point of the substrate and the remaining area to be levelled must be brought level with this point as a minimum.

Where it is necessary to contain ScreedPro All Purpose, such as day work joints or edges of movement joints, wooden laths or similar should be used as flow-stops.

For greater thicknesses apply further layers after the previous one has set, first removing any laitance that may have occurred. All layers must be of a similar depth. No priming is required between layers.

Substrates - Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry. Sand: cement screeds must have a moisture reading of less than 75% RH before work can begin. Allow approximately 1 day per mm for drying. Ensure all surfaces to be coated are clean, dry, frost free and free from grease, oil, dirt, dust, loose friable material and any other contaminants (coating, laitance, etc).

When levelling to 8mm and above the floor preparation must be adequate to support the strength development of the levelling compound. For this purpose, mechanical preparation, using an enclosed shotblasting machine or similar methods must be used to expose the aggregate of the screed and provide a suitable key for the leveller to adhere to.



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Substrates (continued)

All surface dust must be removed by vacuuming prior to application of the product. Prime with 2 coats if required of 3 or 4 parts water to one-part Nicobond Primer depending on the absorbency of the substrate and allow to dry between each coat. If a thin coat of slurry primer is being applied directly to the suitably prepared substrate, then a minimum coat of 3mm thick to 6mm can only be used of this levelling compound.

This product is not intended to be used to feather edge below its minimum application depth – use Nicobond ScreedPro Feather Finish if required

Nicobond One Coat DPM & Primer

Being moisture tolerant, ScreedPro All Purpose can be used to pre-smooth a concrete floor prior to the application of Nicobond One Coat DPM & Primer. Surface regularity is an important quality of a screed or floor surface, which is often described as a measure of waviness of the surface. For normal accuracy floors, it is defined as the limitation of deviation of the surface beneath a straightedge laid flat on the surface. When measured using a 2m straightedge the maximum gap should be 5mm (SR2). Above this deviation the floor must be pre smoothed.

ScreedPro All Purpose can also be used over Nicobond One Coat DPM & Primer. Apply directly to the DPM surface within 18 hours. If the DPM has cured for ≥18 hours, then apply a coat of undiluted thin coat of Nicobond Primer or Nicobond Gritted Primer and allow to dry. In commercial areas two coats are recommended and whilst the second coat is still wet broadcast 1.2mm kiln dried quartz directly over the DPM and allow to dry. Brush off any loose particles before laying the Nicobond ScreedPro All Purpose. Only apply ScreedPro All Purpose 30 at minimum 3mm thick up to a maximum coating of 6mm over DPM.

Power Floated Concrete

The surface should have been allowed to dry for at least six weeks. Power Floated Concrete can have a loose top layer and in some cases laitance once it has dried. Mechanically remove any laitance or surface treatments. All dust and debris must be removed using a vacuum.

Ceramic, Quarry & Porcelain Tiles

The surface must be clean, dry, secure and free from dirt and dust. Use ScreedPro Feather Finish to fill in the grout joints to make the surface level prior to priming and applying ScreedPro All Purpose.

Under-floor Heating

Under-floor heating must be switched off 48 hours before and after application. When switching on start with a low temperature, gradually increasing it to its operating temperature at a maximum rate of 5°C per day.

Flooring Grade Asphalt

The surface must be clean, secure and free from dirt and dust. A minimum application of 3mm (maximum 6mm) of ScreedPro All Purpose will be required.

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Bitumen

Direct application of ScreedPro All Purpose to bitumen is not recommended due to potential migration of oils or solvents over time. Firstly, apply a slurry bond coat consisting of 1-part ScreedPro All Purpose, 1-part Nicobond Primer and 1-part water. Allow to dry.

Vinyl Tiles

Existing hard vinyl tiles must be secure and adhered to the sand/cement or concrete substrate to which the vinyl tiles was originally applied. The surface must be clean, dry, secure and free from dirt and dust. Prime with Nicobond Gritted Primer.

Floorboards and T/G boarding

Tongue and groove boards must be screwed down to the joists every 150mm to provide a rigid and flat surface. Ensure the substrate is strong enough to support the leveller, adhesive and final floorcovering. Ensure there is sufficient ventilation beneath the substrate.

Plywood

Nicobond Tile backer board should be used in place of plywood where possible at 10mm minimum thickness. If plywood is already in situ, the plywood must be 15mm or thicker screwed/ring nailed at 150mm centres. Use ScreedPro Feather Finish to fill in the joints etc. prior to applying ScreedPro All Purpose. ScreedPro All Purpose should be used only to pre-level wood prior to a timber overlay. Ensure there is sufficient ventilation beneath the substrate.

Priming

Priming is required.

- Porous Substrates - Nicobond Primer (diluted 1:4 with water)
- Non-Porous Substrates – Nicobond Gritted Primer (use neat – undiluted)
- Calcium Sulphate Screeds – remove laitance and prime with 1:2 diluted Nicobond Primer: water. Apply a second diluted coat once first has dried perpendicular to the first. Ensure 100% coverage.

Technical Terms & Definitions

Porous (Permeable & Absorbent)

Porous surfaces are any materials having minute or narrow spaces through which liquid or air may pass. Examples of porous materials are quarry tiles (unsealed), unvarnished (unfinished) wood, concrete (not power floated), sand/cement screeds.

Non-Porous (Impermeable & Non-Absorbent)

Non-porous surfaces tend to be thick, dense, and solid so that nothing can penetrate beyond its outer-most surface. Examples of non-porous surfaces are metal objects, varnished wood, laminate counters, granite, power floated concrete, glazed ceramic tiles, porcelain tiles, flooring grade asphalt, quarry tiles (sealed) and vinyl. See notes on the use of Nicobond DPM One Coat Membrane & Primer.

Fast Setting Screeds

Allow a faster setting time to achieve foot traffic within a shorter period. Such products may still require 12-24 hours to dry out completely (depending on thickness).

Fast Drying Screeds

Allow for the quicker installation of floorcoverings. Such products may be dry with in 4-6 hours (depending on thickness).

Tools

Suitable steel smoothing trowel, spiked roller, mixing bucket, electric drill and powder whisk.

Cleaning

Wash tools thoroughly with water immediately after use.

Shelf Life

A minimum of 12 months in unopened bags and a minimum of 12 months in unopened bottles from the date of manufacture

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.

Health & Safety Advice

ScreedPro All Purpose powder is classified under the Chemicals (Hazard Information and Packaging for Supply) Regulations.

The relevant Material Safety Data Sheet can be obtained from the website or directly from N&C Building Products Ltd at the address below.



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The information contained on this data sheet is given in good faith. It is to the best of our knowledge true and accurate; however, it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

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