

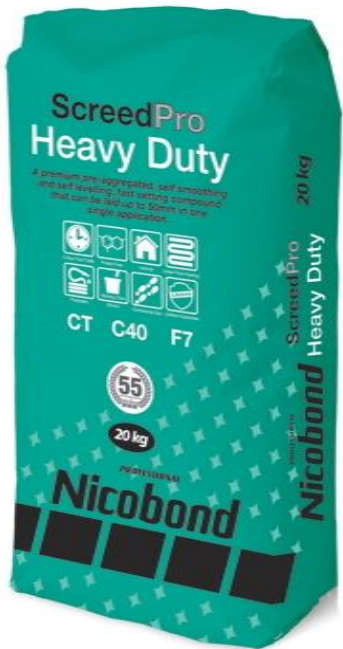
High performance products for tiling & flooring professionals

# ScreedPro Heavy Duty CT-C40-F7

**Key Features:**

- Can be used as a wearing surface with a suitable sealer
- Internal & external use
- Ideal for light commercial applications
- Suitable for levelling substrates ranging from 5mm to 50mm in thickness, accommodating a wide range of flooring coverings.
- Self-levelling formulation ensures smooth and even distribution across the substrate, minimizing the need for manual intervention.
- Low shrinkage.
- Pumpable
- Protein Free

- Foot traffic in 2 hours at 20°C
- Simply mix with water.
- Fibre reinforced.
- Pre aggregated
- **Fix tiles in 4 hours at 20°C/5mm**
- **Unbonded floorcoverings from 8 hours at 20°C/5mm**
- **Bonded floorcoverings from 24 hours at 20°C/5mm**
- Excellent adhesion: Bonds strongly to various substrates, including concrete, screed, plywood overlay, and existing floor coverings, ensuring reliable performance in diverse applications.



External

Internal

Undertile heating

Floor

Work Time

Pumpable

EN 13813:2002 Test Methods

EN 13892-2

Determination of flexural and compressive strength after 28 days

**Application Data**

Colour	Grey
Mixing Ratio	20kg powder to 4.0-4.5kg water
Mixing	Measure the required amount of clean water 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	5mm to 50mm
Coverage	@5mm – 2.1m <sup>2</sup> per unit/100m <sup>2</sup> requires 48 bags @50mm – 0.21m <sup>2</sup> per unit/ 100m <sup>2</sup> requires 476 bags
Working Life	20-30 minutes @20°C
Walk on time	From 2 hours @20°C
At 5mm thickness ready for Ceramic Tiles	4 hours @20°C
Resilient floor coverings/LVT (Dependant on thickness)	Approx 8 hours @20°C loose lay, Approx 24 hours @20°C bonded
Ready For Light foot Traffic	From 2 hours @20°C
Installation Temperature	Minimum 5°C
Operating Temperature	-20°C to 70°C
Packaging	Powder 20kg poly lined paper sack.

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.

# ScreedPro Heavy Duty CT-C40-F7

## 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-C40-F7

## Description

ScreedPro Heavy Duty is a water mix, low odour, underlayment designed for smoothing uneven floors prior to the installation of floorcoverings. ScreedPro Heavy Duty is an advanced and versatile base mix designed for applications from 5mm up to a maximum of 50mm. It can be over painted with a suitable sealer and be considered a wearing surface.

ScreedPro Heavy Duty has been specially blended with Portland cement, coarse aggregate and additives to produce a fluid, pumpable cement mortar that is designed to rapidly level uneven, hard sub-floors. ScreedPro Heavy Duty can typically be pumped up to 900m<sup>2</sup> per day depending on the available manpower, application thickness and type of pumping equipment used. ScreedPro Heavy Duty can be used externally; however, site conditions will be typically at a lower temperature than internally and may extend the drying time of the product. Care must be taken to consider the current and incoming weather forecast and if the area is uncovered screeding should not be commenced in damp conditions or if rain is expected. Similarly, if high temperatures are expected this may cause the screed to dry too quickly.

ScreedPro Heavy Duty being protein free, the product can be used in biologically sensitive areas; ideal for use in hospitals, laboratories, food preparation areas, grocery shops, restaurants, schools, care homes etc, and can also be used in domestic and commercial areas. It is ideal for use in factories, garages, shops, schools, care homes, biological areas etc.

## Application

Use mixed material immediately. The material will remain fluid to accept further material to complete an area for approximately 20-30 minutes. Trowel, float or use a spiked roller to apply the material onto the prepared subfloor to a between 5mm and maximum thickness of 50mm. At 5mm thickness, the mixture will self-smooth during application. The 5mm 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. ScreedPro Heavy Duty can typically be pumped up to 900m<sup>2</sup> per day depending on the available manpower, application thickness and type of pumping equipment used. As a guide when pumping the flow diameter of the product needs to be regularly monitored. For a 200ml flow cup (48 mm diameter, 106 mm height) a flow diameter of 235 – 275 mm is required.

Where it is necessary to contain ScreedPro Heavy Duty, 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.



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## Substrates - General

Joints within the subfloor that are designed for movement must be followed through to the surface of the flooring system. It is recommended that subfloor joints should be marked out prior to applying ScreedPro levelling compounds and re-established by disc cutting after 24 – 48 hours. A movement joint must be incorporated at all perimeters and at door thresholds to allow for building movement. Light ventilation is recommended, particularly in enclosed areas. Strong drafts need to be avoided as this can cause localised rapid drying on the surface.

## 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.

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 5mm to 6mm thick can only be used of this levelling compound.

This product is not intended to be used to feather edge below its minimum application depth of 5mm – use Nicobond ScreedPro Feather Finish if required

## Nicobond One Coat DPM & Primer

Prior to the application of Nicobond One Coat DPM & Primer the surface regularity needs to be assessed. This 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. A suitable moisture tolerant product can be selected from the Nicobond ScreedPro range to pre smooth as required.

ScreedPro Heavy Duty 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 must be used. 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 Heavy Duty. Only apply ScreedPro Heavy Duty at minimum 5mm, 6mm maximum coating over DPM.

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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## 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 Heavy Duty.

## 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 5mm, maximum 6mm of ScreedPro Heavy Duty will be required.

## Bitumen

Direct application of ScreedPro Heavy Duty to bitumen is not recommended due to potential migration of oils or solvents over time. Firstly, apply a slurry bond coat of 1-part ScreedPro Heavy Duty, 1-part Nicobond Primer and 1-part water. Allow to dry. Minimum 5mm, Maximum 8mm bed depth.

## 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 Heavy Duty and should be used only to pre-level wood prior to a timber overlay. Ensure there is sufficient ventilation beneath the substrate.

## Calcium Sulphate/Anhydrite Screeds

Cement based systems and calcium sulphate screeds are not compatible and a barrier between the two must be in place. Mechanically remove laitance using the same method as described in Concrete & Sand/Cement Screeds 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.



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## Priming

Priming is required.

- Porous Substrates - Nicobond Primer (diluted 1:4 with water)
- Non-Porous Substrates – Nicobond Primer or Nicobond Gritted Primer (use neat – undiluted)

## 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 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 Heavy Duty 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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