



UNICLASS L6412:P21	CAW M10
CI/SfB	(43) Yq2

Technical data sheet

July 2016

ScreedPro Heavy Duty

A premium pre-aggregated, self smoothing and self levelling, fast setting compound that can be laid up to 50mm in one single application providing an even base for installations.



Features*

- 5mm – 50mm depth
- Rapid setting
- Foot traffic 2 hours
- Wearing surface with a suitable sealer
- Suitable for light commercial applications
- Dries in 24 hours
- Pumpable
- Protein free
- Shrinkage compensated
- Fix ceramics 4 hours at 20°
- Unbonded floorcoverings from 8 hours
- Bonded floorcoverings from 24 hours
- CT – C40 – F7
- 20kg

* at 20°C and 5mm thickness



2 hour
foot traffic



protein free



internal



under-floor
heating



pumpable
screed



working time
25 mins



lifetime
guarantee

The compound shall be ScreedPro Heavy Duty as manufactured by N&C Building Products Limited, 41-51 Freshwater Road, Chadwell Heath, Romford, Essex, RM8 1SP, England. Tel: 020 8586 4600 and shall be applied strictly in accordance with the manufacturer's current data sheets and instructions.





British Standard - Guidelines

All aspects of the installation must be in accordance with the requirements of BS 8204, BS 8203 (Installation of Resilient Floorcoverings) or BS5325 (Installation of Textile floor coverings). Complies with EN standards and supplementary specifications.

Description

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 sealer and be considered as a wearing surface.

ScreedPro Heavy Duty has been specially blended with graded aggregates and high quality synthetic resins 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 900m² per day depending on the available manpower, application thickness and type of pumping equipment used.

Being protein free, the product can be used in biologically sensitive areas; ideal for use in: hospitals, laboratories, food preparation areas, food shops, restaurants, schools, care homes etc.

ScreedPro Heavy Duty can be used over Damp Proof Membranes. Apply the first coat of DPM and allow to dry and then apply a second coat. Whilst this 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 ScreedPro Heavy Duty. For best results apply ScreedPro Heavy Duty at minimum 3mm thick.

Mixing

Add 3.5 - 4.0 litres of clean water in to a clean suitable container. The powder should be added at a steady rate, while stirring continuously using a variable speed mechanical mixer on slow speed. The material should be mixed until a smooth consistency is achieved.

For larger areas or greater thicknesses an appropriate mixing pump is more suitable.

Application

Used mixed material within 25 minutes at 20° C. Pour the blended ScreedPro Heavy Duty onto the prepared sub floor and spread in to place.

Above 5mm thickness, the mixture will self-level and self smooth during application. 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.

Priming is required between layers.

Substrates

Concrete & Sand/Cement Screeds

Concrete and sand/cement screeds must be dry and any laitance or surface treatments removed.

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 of new screeds. It is also advised to prime sand/cement screeds to maintain a good flow and prevent air bubbles rising to the surface.

Porous surfaces may need more than one coat. Prime with Nicobond Primer diluted at 4 parts water to 1 part Nicobond Primer.

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 rate of 5° C per day.

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, secure and free from dirt and dust.

How much material?			
Applied Thickness	Approximate Coverage Per Bag	Consumption Per 100m ² Area	Aggregate
5mm	2.1m ²	48 bags	n/a
50mm	0.21m ²	476 bags	n/a

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.



Substrates

Metal Surfaces

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

Priming

Priming is always required. See table below.

Surface	Primer
Porous Substrates	Nicobond Primer (diluted 1:4 with water)
Non Porous Substrates	Nicobond Primer (use neat – undiluted)
Calcium Sulphate Screeds	Consult Technical Support

Technical Information

Specification	ScreedPro Heavy Duty
BS EN 13813 Classification	CT-C40-F7
Application Thickness Unfilled	5mm to 50mm
Filled	n/a
Working Life @ 20° C	20 - 30 minutes
Walk on time @ 20° C	2 hours
At 5mm thickness ready for Ceramic Tiles	4 hours
Resilient floor coverings / LVT (Dependent on thickness)	Approx 8 hours loose lay Approx 24 hours bonded
Application over non-absorbent surfaces	Allow 24 hours (in good drying conditions)
Installation Temperature	Minimum 5° C
Compressive Strength N/mm ² (BS EN 13892-2) 28 Days	> 44.0
Flexural Strength N/mm ² (BS EN 13892-2) 28 Days	> 8.0
Packaging	20kg bag

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, powered 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.

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, powder whisk or suitable pumping machine.

Cleaning

Wash tools thoroughly with water immediately after use.

Shelf Life

6 months in unopened bags from the date of packing.

Storage

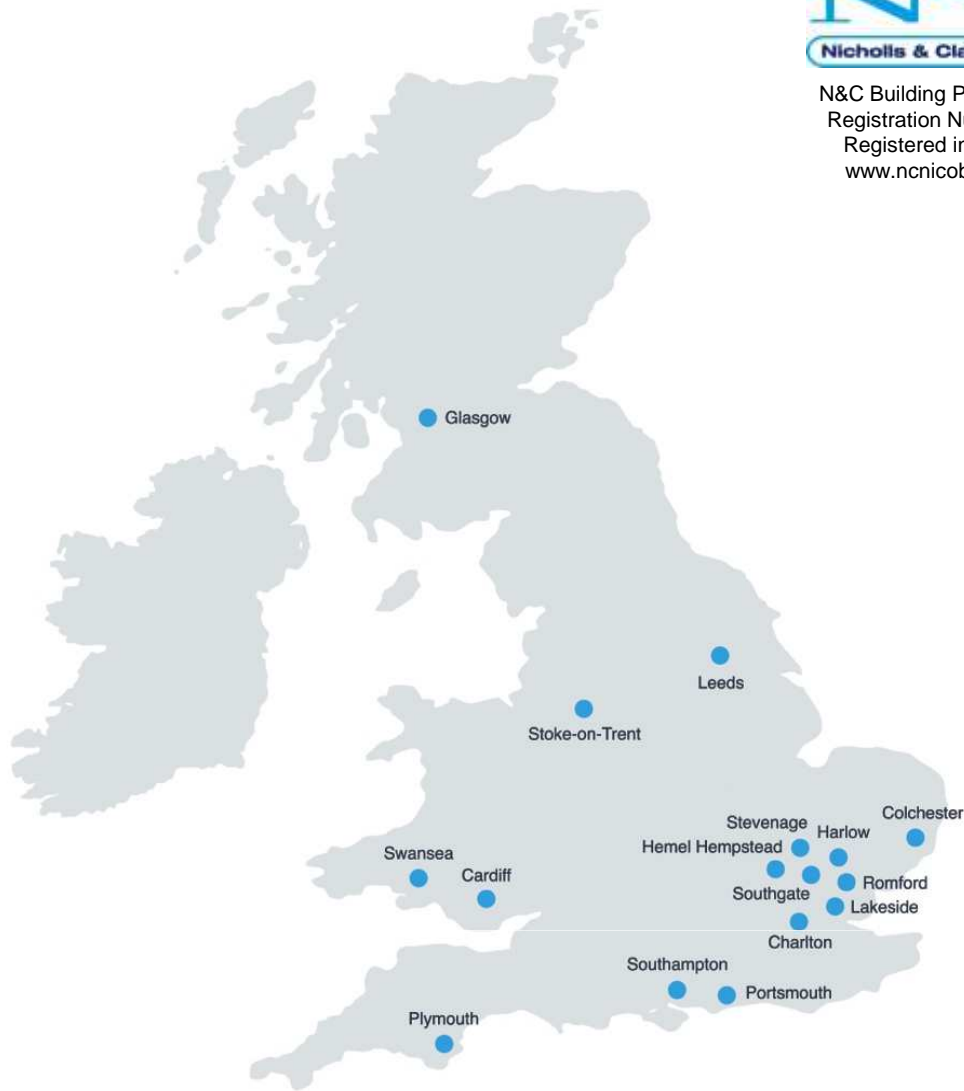
This product must be stored clear of the ground, under dry conditions, out of direct sunlight. Protect from frost. If allowed to freeze N&C Building Products cannot guarantee the performance of the product.

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.

N & C Building Products Limited
 41-51 Freshwater Road
 Chadwell Heath
 Romford
 Essex RM8 1SP
 Tel: 020 8586 4600
 Fax: 020 8586 4646
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