



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

Technical data sheet

December 2021

# ScreedPro Flow

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



## Features

- Up to 50mm depth
- Rapid setting
- Foot traffic 2 hours
- Dries in 12 hours
- Pumpable
- Protein free
- Shrinkage compensated
- Fix ceramics 4 hours at 20°
- Unbonded floorcoverings from 8 hours
- Bonded floorcoverings from 12 hours
- CT - C35 - F6
- 20kg

\* at 20°C and 5mm thickness



2 hour  
foot traffic



protein free



internal



under-floor  
heating



pumpable  
screed



working time  
20 - 30mins



lifetime  
guarantee

The compound shall be ScreedPro Flow 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 Flow is a technically advanced smoothing and levelling compound that is designed to rapidly smooth and level existing substrates prior to applying a floor finish.

ScreedPro Flow can be used in domestic, commercial and light industrial areas, 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 Flow 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 Flow. For best results apply ScreedPro Flow at minimum 3mm thick.

### Mixing

Add 3.8 - 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 lump free consistency is achieved. For larger areas or greater thicknesses an appropriate mixing pump is more suitable.

### Application

Pour the blended ScreedPro Flow onto the prepared sub-floor and spread in to place.

Above 3mm thickness, the mixture will self-level and self-smooth during application. From feather edge to 3mm, trowel apply as a conventional smoothing underlayment.

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

ScreedPro Flow can be applied from 1mm to 15mm in one application unfilled. A greater thickness up to 50mm can be achieved by adding Nicobond Chippings at a ratio of 2:1.

## 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 Flow.

### 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.

### Flooring Grade Asphalt

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

### 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 <sup>2</sup> Area	Aggregate
3mm	4m <sup>2</sup>	25 bags	n/a
15mm	0.8m <sup>2</sup>	125 bags	n/a
20mm	0.6m <sup>2</sup>	110 bags	55 bags

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.



### 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 Flow
BS EN 13813 Classification	CT-C35-F6
Application Thickness	
Unfilled	1mm to 15mm
Filled	50mm
Working Life @ 20° C	20-30 minutes
Walk on time @ 20° C	2 hours
At 3mm thickness ready for Ceramic Tiles	4 hours
Resilient floor coverings / LVT (Dependent on thickness)	Approx 8 hours loose lay Approx 12 hours bonded
Application over non-absorbent surfaces	Allow 24 hours (in good drying conditions)
Installation Temperature	Minimum 5°C
Compressive Strength N/mm <sup>2</sup> (BS EN 13892-2) 28 Days	> 37.0
Flexural Strength N/mm <sup>2</sup> (BS EN 13892-2) 28 Days	> 6.9
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 solid plastics, 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

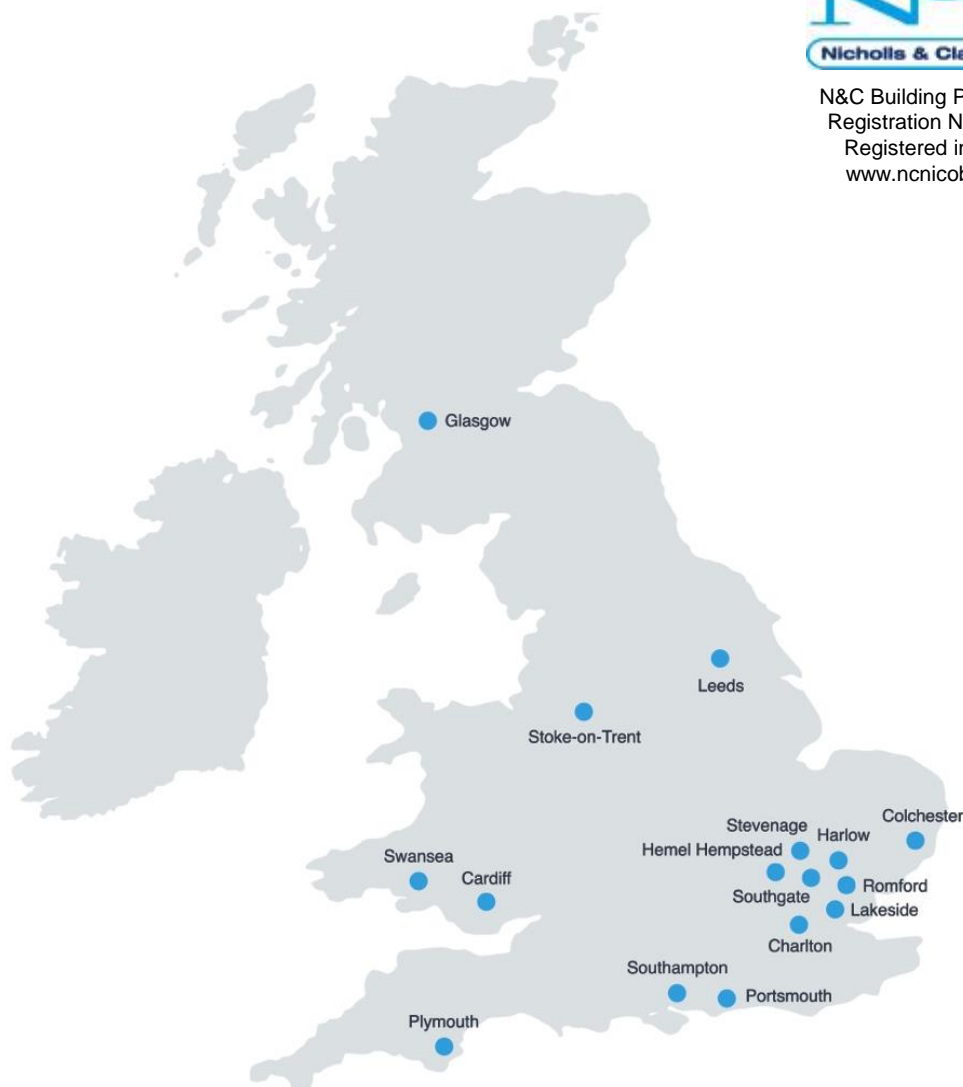
This product must be stored clear of the ground, under dry conditions, out of direct sunlight. Protect from frost. If allowed to freeze N&C Building Products cannot guarantee the performance of the product.

#### Health & Safety Advice

ScreedPro Flow 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  
Email: [info@nichollsandclarke.com](mailto:info@nichollsandclarke.com)  
Web: [www.ncnicobond.com](http://www.ncnicobond.com)



#### Distribution Centres, Trade Counters & Showrooms

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

C1 Cothill Trading Estate  
 Plympton  
 Plymouth PL7 1SR  
 Tel: 01752 339724  
 Fax: 01752 342746

B1 - B3 Sneyd Trading Estate  
 Sneyd Hill, Burslem  
 Stoke on Trent ST6 2PA  
 Tel: 01782 575727  
 Fax: 01782 575641

26 Colquhoun Avenue  
 Hillington  
 Glasgow G52 4BN  
 Tel: 0141 880 1200  
 Fax: 0141 880 1212

4 Waterloo Industrial Estate  
 Flanders Road  
 Hedge End  
 Southampton SO30 2QT  
 Tel: 01489 779700  
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3 - 4 Cardiff Trade Park  
 Hadfield Road  
 Cardiff CF11 8AQ  
 Tel: 02920 390146  
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2 City Park Industrial Estate  
 Gelderd Road  
 Leeds LS12 6DR  
 Tel: 0113 224 4630  
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#### Trade Counters & Showrooms

1A - 1B Alexander Place  
 Lower Park Road  
 New Southgate  
 London N11 1QD  
 Tel: 020 8361 6050  
 Fax: 020 8361 4757

14 Meridian Trading Estate  
 Bugsby Way, Charlton  
 London SE7 7SJ  
 Tel: 020 8269 5960  
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Units 10 - 11, 14 - 15  
 Advent Way, Edmonton  
 London N18 3AF  
 Tel: 020 8586 4600  
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8 Ascent Park  
 Edinburgh Way,  
 Harlow Essex CM20 2HW  
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1 Cliffside Trade Park  
 Motherwell Way,  
 Lakeside, West Thurrock  
 Essex RM20 3XD  
 Tel: 01708 680180  
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9 - 11 McDonalds  
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