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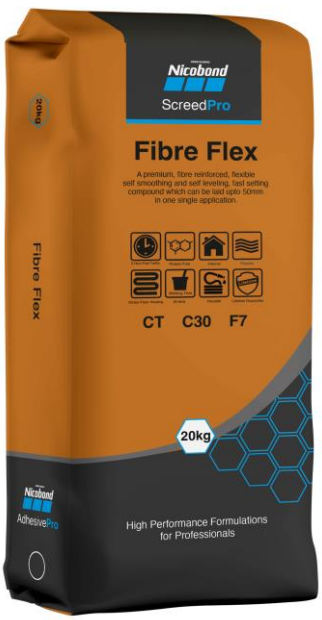
| Reference Number | NCR0225262 |
| Date | September 2025 |
| Previous Revision | October 2024 |

High performance products for tiling & flooring professionals

# ScreedPro Fibre Flex

- Moisture tolerant
- Features excellent adhesion and flexibility ideal for application over plywood, floorboards and T&G boarding
- Contains fibres for enhanced crack bridging
- Suitable for encapsulating underfloor heating pipes
- Apply to Internal rigid steel substrates
- From 3mm to 50mm in a single application
- Set to foot traffic after only 2.5 – 3 hours regardless of depth at 20°C
- Exceptional flow and self-smoothing characteristics
- Pumpable
- Ammonia and Protein-free.
- Ultra-low emissions suitable for use in sensitive environments.
- Loose laid Resilient Floor coverings can be laid after 8 hours at 20°C.
- Fix Ceramics after only 5 hours at 20°C.
- Bonded Resilient Floorcoverings and LVT from 24 hours at 20°C.
- Shrinkage compensated.
- BS EN 13892-2 CT-30-F7





| EN 13813:2002 Test Methods | |
|---|---|
| EN 13892-2 | Determination of flexural and compressive strength after 28 days |
| Compressive Strength at 28 days | > 30.0 N/mm² (BS EN 13892-2) |
| Flexural Strength at 28 days | > 7.0 N/mm² (BS EN 13892-2) |

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 | Grey |
| MIXING RATIO | 20kg powder to 4.0 - 4.2kg clean 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 | 3mm to 50mm |
| COVERAGE | At 3mm – approx. 5m² per unit/100m² requires 25 bags<br>At 15mm – approx. 1.3m² per unit/ 100m² requires 130 bags |
| POT LIFE | 20-30 minutes at 20ºC |
| AT 3MM THICKNESS READY FOR CERAMIC TILES | 5 hours at 20ºC |
| RESILIENT FLOOR COVERINGS/LVT (AT 3MM THICKNESS) | Approx 8 hours 20ºC loose lay, Approx 24 hours 20ºC bonded |
| AT 3MM READY FOR LIGHT FOOT TRAFFIC | From 2.5 -3.0 hours at 20ºC |
| INSTALLATION TEMPERATURE | Minimum 5ºC, maximum 30ºC, |
| IN SERVICE TEMPERATURE | -20ºC to 70ºC |
| SHELF LIFE | At least 12 months from date of packing when kept clear of the ground and stored under dry conditions in unopened packaging. Protect from frost. |
| PACKAGING | Powder 20kg poly lined paper sack. |

# ScreedPro Fibre Flex

**BRITISH STANDARDS AND GUIDELINES:**
All aspects of any installation of the Nicobond ScreedPro 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 wall and floor tiling. With reference also to the Contract Flooring Association Guide to Contract Flooring, and The Tile Association guidelines.

All installations must be carried out in strict accordance with the manufacturer's instructions featured in the relevant Technical Data Sheets (TDS). Expansion, movement, and perimeter joints in the substrate must be carried through to the surface, with foam expansion strips fitted to any adjacent vertical structures to prevent the compound from entering the joints. ScreedPro Fibre Flex is not intended as a wearing surface and should always be covered, while trafficking with heavy equipment and the storage of building materials on the screed should be avoided. Where this cannot be prevented, the screed must be allowed to fully cure, and the surface protected against damage or wear during subsequent building operations by using rigid boarding of appropriate thickness, selected according to the point and rolling loads that will be applied. Concrete substrates need to be minimum 6 weeks old and then left a further 3 weeks before applying a smoothing compound.

**DESCRIPTION:**
ScreedPro Fibre Flex is a rapid setting, low-odour, water mix smoothing compound with excellent flow capabilities. ScreedPro Fibre Flex is walkable in as little as 2.5 hours (typically 3 hours) at 3mm/20ºC, and ceramic tiles fixed from 5 hours.t Unbonded floor coverings can be installed from 8 hours at 3mm/20ºC and bonded floor coverings can be installed after 24 hours at 3mm/20ºC.

**USES:**
For smoothing most internal sub floors such as concrete, sand: cement screeds, calcium sulphate/gypsum/anhydrite screedceramic tiles and flooring grade asphalt. ScreedPro Fibre Flex can be applied from 3mm to 50mm in one application to correctly prepared substrates. Use to pre smooth undulations in floors before application of Nicobond DPM. Direct application to Bitumen surface treatments is not recommended and ideally any residues of such material must be removed before application of a Nicobond smoothing compound. Contact Nicobond Technical Support Team for further advice.

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**SURFACE PREPARATION:**
The surface of the subfloor must be clean, sound and free from dust, plaster, grease, all paints, polishes and surface waxes or treatments. Remaining adhesive residues should be checked to ensure that they are not water softenable and that they are hard, sound and have sufficient cohesive strength to receive a smoothing compound. Application depths greater than 6mm onto sand: cement screeds and concrete require the surface to be mechanically prepared to reveal the aggregate to give an adequate mechanical key for the smoothing compound to bond to. Thoroughly vacuum loose material and dust before application.

**PRIMING:**
Priming may not always be necessary, but it is advisable to reduce the effects of porosity of the sub floor which can result in pin-holing or acceleration of setting times of smoothing compounds applied to the sub floor. Any primers used must be fully dry before application of smoothing compound. For porous substrates apply Nicobond Primer diluted 1:3 with water. The Nicobond Primer must be applied with a short pile roller in a thin even coat without pooling and allowed to dry prior to applying the ScreedPro Fibre Flex. Repeat application at right angles to the first if necessary. For impervious or low porous substrates apply Nicobond Gritted Primer and allow to dry before a 3mm minimum, 6 mm maximum thick coat of ScreedPro Fibre Flex.

**MOISTURE CONTENT AND CEMENTITIOUS SUB FLOORS:**
Suitable for substrates subject to residual construction moisture ≤90%RH providing a structural damp proof membrane (DPM) is present. Where moisture sensitive and semi-impervious floor coverings are to be installed, the floor must have a moisture content of less than 75%RH (Relative Humidity) when tested in accordance with BS 8203 and protected by an effective structural DPM prior to installing the subsequent floor finishes. Where rising damp or residual construction moisture is present in concrete or cement/sand screeds and moisture readings are up to 99.9% RH, it will be necessary to install Nicobond DPM One Coat Membrane and Primer, or Nicobond Moisture Vapour Suppressant (MVS) in accordance with the manufacturers Technical Data Sheets. NOTE Application of ScreedPro Fibre Flex directly to these smooth, impervious surface treatments alter the application thickness and it is vital that conformation of the maximum thickness is established before commencing application, along with the priming system required. An application of Nicobond Gritted Primer followed by ScreedPro Fibre Flex, at depths between 3mm and 6mm maximum, may then be applied to the Nicobond One Coat DPM & Primer after approx. ≥12 hours once dry. For commercial installations, the 2nd coat of Nicobond One Coat DPM and Primer should be broadcast with Nicobond ScreedPro Sand NR5 kiln-dried aggregate. Always consult the latest relevant datasheets or contact the Nicobond Technical Support Team for further information.



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# ScreedPro Fibre Flex

During second coat application, broadcast Nicobond ScreedPro Sand NR5 aggregate evenly into the wet resin ensuring that a dry excess of sand is formed above the resin surface (approx. consumption of Nicobond ScreedPro Sand NR5 aggregate is 2 - 3 kg/m²). Regularly check areas that have been sand coated and ensure that there are no patches where the sand appears to have sunk or looks wet - add further sand if necessary. Allow the second coat of resin to cure and then brush and/or vacuum off all dry, loose sand - the resultant finish should resemble medium-to-coarse sandpaper.

If subfloors are impervious, for example flooring grade asphalt, the asphalt should be degreased, left to dry and then be primed with Nicobond Gritted Primer or Nicobond Water Based Epoxy Primer and apply a layer of ScreedPro Fibre Flex, minimum 3mm, and maximum 6mm thick will be necessary to ensure to provide a uniform drying of the new adhesive and to prevent any reaction with existing adhesive residues or with the asphalt subfloor.

**CALCIUM SULPHATE SCREEDS:**
Cementitious flooring products must have a form of barrier with calcium sulphate-based materials, to protect from any reaction which can cause bond-failure and other detrimental effects. The surface of all new calcium sulphate screeds must be prepared using the appropriate, mechanised surface preparation equipment, so that any laitance or weak, loose or friable material is removed from the surface of the screed prior to applying the recommended Nicobond products. All detritus must be swept and vacuumed away prior to commencing the installation of a priming coat.
Mechanical preparation is necessary to a suitable depth whereby the aggregate is exposed to give a key to products applied. For dry screeds ≤75%RH – prime with 1-part Nicobond Primer diluted with 3 parts of clean water. Once this has penetrated the surface apply a 2nd coat diluted as previous perpendicular to the 1st. Once dry apply ScreedPro Fibre Flex from minimum 3 - 6mm maximum.
For Calcium Sulphate Screeds with a moisture content of 75-99.9% RH without underfloor heating, that are over 28 days old a consolidating coat of Nicobond DPM is recommended. A prepared 10kg unit of Nicobond DPM Membrane & Primer (resin and hardener mixed as per TDS) can have 1 litre of Nicobond DPM Thinners added and mixed. For commercial installations, the 2nd coat of Nicobond DPM One Coat Membrane and Primer should be broadcast with Nicobond ScreedPro Sand NR5 aggregate as described above.

Once dry this should be swept and vacuumed away to leave a surface not unlike coarse sandpaper. The ScreedPro Fibre Flex can then be applied up to 50mm, minimum 3mm. Prior to installing a surface DPM it is imperative that the manufacturer of the screed binder is consulted and their instructions regarding the application of a DPM are clearly adhered to.

NOTE Nicobond DPM One Coat Membrane & Primer once applied must have the smoothing compound applied as soon as reasonably practical to limit the possibility of the DPM being breached. Avoid performing cleaning regimes on or near to the area where DPM has been applied.

**EXISTING CERAMIC, PORCELAIN AND QUARRY TILES:**
A functioning DPM must be in place within the subfloor build-up. All tiles should be fully degreased prior to application of Nicobond Gritted Primer. ScreedPro Fibre Flex can be applied over ceramic tiles from 3 to 6mm thick providing all loose materials have been uplifted and replaced with ScreedPro Rapid Repair Mortar, and all failing joints have been raked out, cleaned and refilled with ScreedPro Rapid Repair Mortar and finished to levels with ScreedPro Feather Finish.

**PLYWOODS, FLOORBOARDS and T/G BOARDING:**
Tongue and groove boards must be screwed or ring nailed 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. It is vital that there is sufficient ventilation beneath the substrate. Apply at a minimum thickness of 5mm and consider any lipping of boards as a minimum of 5mm must be applied at these points with the remainder of the area being levelled to this point. ScreedPro Fibre Flex may be used directly on clean, untreated 15mm minimum thick plywood, but if unsure, it is advisable to apply Nicobond Primer according to the products Technical Data Sheet. Nicobond Water Based Epoxy Primer can also be used.

**HARD VINYL TILES:**
Existing hard tiles must be securely bonded to the sub floor, which must have a functioning DPM in place. The surface of the tiles must be free from all contaminants and polishes, waxes, or solvents. Once clean and secure apply a coat of Nicobond Gritted Primer, allow to dry, followed by a 3 to 6mm maximum application of ScreedPro Fibre Flex.

**UNDERFLOOR HEATING:**
Suitable on or for. Follow manufacturers guidance and/or contact Nicobond Technical Support Team for further advice.

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**METAL:**
For internal steel floors only and they must be rigid, rust-free and clean. Apply Nicobond Water Based Epoxy Primer before application of ScreedPro Fibre Flex at a minimum 3mm thickness.

NB: For all other forms of substrates contact N&C Building Products Ltd, and for larger projects of over 500m² it is advisable to contact N&C Building Products Limited for technical advice, site surveys and support and a full written specification, also available in NBS format that is project specific to each individual installation.

**MIXING:**
Weigh out the required water and pour into a clean and dry mixing bucket. Add the powder at a steady rate while mixing with a mechanical variable speed powered drill and a suitable whisk until a smooth, lump-free and fluid mixture is achieved. Do not add any additional water to the mix during or after placement as this will have a detrimental effect on the finish and integrity of the product.

**APPLICATION:**
Once mixed, immediately apply to the prepared sub floor spreading evenly with a smooth-edged steel trowel to a thickness of minimum 3mm to a maximum thickness of 50mm per coat. 3mm is the absolute minimum depth the product can be applied over the highest point of an area with levels being brought to this. Do not feather edge product to less than 3mm, use ScreedPro Feather Finish if required.

**PUMP APPLICATION:**
It is vital that guidance given in BS 8204-7:2003 Screeds, bases and in situ floorings —Part 7: Pumpable self-smoothing screeds — Code of practice Annex A (normative) Method for the determination of the flow value is followed, and a suitable flow diameter is maintained.

**COVERAGE:**
A combined unit (powder & liquid) will cover approximately 4.7 – 5.0m² at 3mm thickness on a flat level surface, and additional material should be allowed for where the surface is uneven.

**DRYING AND HARDENING:**
At normal temperatures (20ºC) working time is approximately 30 minutes. ScreedPro Fibre Flex is accessible to foot traffic from approximately 2.5 – 3 hours at 3mm/20ºC after application. The setting, hardening and drying times will be extended at lower temperatures, shortened at higher temperatures and high humidity.

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**APPLICATION OF FURTHER LAYERS:**
Ensure existing layer is free from dust and debris, is at least 24 hours old and is free from pin-holing and laitance. Apply a coat of Nicobond Primer, diluted 1-part Nicobond Primer to 3-parts clean water, allowed to dry, followed by a 2nd coat of Nicobond Primer diluted 1-part Nicobond Primer to 3-parts clean water applied at right angles to the first. Once dry apply ScreedPro Fibre Flex at thickness of minimum 3mm to a maximum thickness of 50mm per coat. Ensure the finish coat does not exceed the depth of the basecoat.

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

**CLEANING:**
Wash tools thoroughly with clean water immediately after application of smoothing compound.

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:**
**POWDER COMPONENT:**
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. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Call doctor if you feel unwell.



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