

NANOSCREED HD

Decorative Cementitious Flooring Overlay



Nanoscreed HD is a decorative, pigmented, two component, polymer cement based floor overlay screed system which produces an attractive floated concrete look and a unique mottled finish.

Formerly known as "Smooth & Patch", it is a versatile, durable and economical flooring product. Nanoscreed HD is designed for application in domestic and semi-commercial environments.

UNIQUE PRODUCT BENEFITS

- Durable decorative polymer modified screed
- Pigmented in a range of natural earthy colours
- Trowel-able to give unique "movement" and texture
- Colour stable
- Hard-wearing
- Ideal for use in decorative residential and light commercial applications

TECHNICAL DETAILS

Compressive Strength	25 MPa (28 days)
Concrete Adhesion	> 1.5 MPa
Components	2 part system
Colours	Various standard colours
Mix Ratio	5 L : 25 Kg
Working Life	10 - 15 min.
Initial Set	20 - 30 min.
Time to Floating	45 - 60 min. (Temperature dependant)
Final Setting Time	2 - 3 hrs
Foot Traffic	12 hrs
Cure Time	24 hrs
Kit Yield	15 L
Coverage @ 3 mm	4 - 5 m ²
Storage	Cool dry, indoors
Clean Up	Water

PRODUCT COLOUR RANGE:



*Product colours may differ from the ones shown above. For a full colour chart or for samples, contact your nearest Technical Finishes branch. UV exposure yellowing is more prominent in light colours yet does not affect performance.

Leading manufactures of specialist epoxy and polyurethane flooring systems, specialised construction and corrosion protection products.

Distribution facilities nationwide

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TECHNICAL FINISHES
SPECIALIST FLOORING AND CONSTRUCTION SOLUTIONS



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APPLICATIONS:

- Decorative residential flooring
- Semi-commercial flooring
- Floated concrete finish
- Seamless flooring
- Floor levelling
- Mottled floated aesthetics

SUBSTRATE REQUIREMENTS

Concrete substrates must have a minimum compressive strength of 20 to 25 MPa, a minimum tensile pull-off strength of 1.5 MPa and be free of oil, fat, grease, dust, and loose friable materials.

Note: Any filling of blowholes/voids and surface levelling of substrate can be achieved using appropriate products within Technical Finishes Construction Range (please speak to one of our technical sales representatives).

PREPARATION & PRIMING

Remove all previous coatings, unbonded concrete and laitance mechanically through diamond grinding to obtain a sound and porous surface (sandpaper texture). Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.

Good Level Concrete

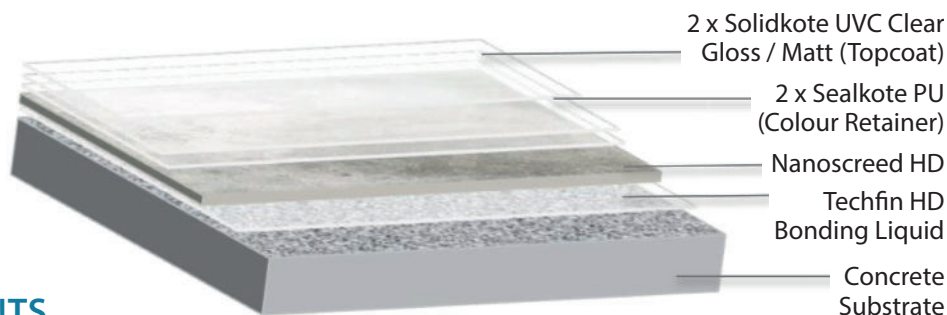
Prepare the concrete surface as above. Once cleaned, prime the surface with Techfin HD Bonding Liquid using a roller ensuring that the surface is well covered and is visibly sealed (no dry patches). Allow the primer to tack off for 20 minutes and begin with screeding.

Correction of Levels

Poor surface levels should be corrected by dampening the prepared concrete and applying a scraper coat of Nanoscreed HD to help fill in holes and voids to establish a uniform level surface. Once the scraper coat is dry (8 hours), apply a roller coat of Techfin HD Bonding Liquid ensuring the surface is well covered. Allow 20 minutes to tack off and immediately begin to apply the final Nanoscreed HD layer.

Application Over Tiles

Remove the surface glazing by grinding the tiles. Loose or hollow tiles must be removed and filled with Nanoscreed HD. Apply Solidkote 110 epoxy primer over the prepared



tile surface and broadcast silica sand AFS 38-55 to saturation (300 g / m²) paying special attention to fill in the grout lines. Once cured sweep and vacuum all loose silica sand. Apply a roller coat of Techfin HD Bonding Liquid and allow 20 minutes to tack off and begin with screeding.

INSTALLATION:

Ensure application conditions of 15 to 28°C. Ensure adequate lighting to achieve an even and level spread. Installation should not be attempted unless application team is fully trained.

Mixing

Decant the contents of the supplied liquid bottle into a suitable bucket. Then, slowly add the 25 kg bag while mixing with a mortar mixer until a smooth, lump free consistency is achieved, approximately 3 minutes. Scrape the sides of the bucket and mix again.

Placing

Pour the mixed product out onto the primed floor surface in a long ribbon. Do not keep mixed product in the bucket. Spread the product with a 6 mm notched rake or trowel. Gently glide a rubber squeegee or steel pool trowel over the surface to remove rake lines. Ensure the thickness is 3 - 4 mm as each kit should achieve 5 m². The working life is 10 - 15 minutes for best levelling results. Once the first mix has been placed, the next mix should arrive and seamlessly be troweled into the first kit. Allow the product to set for 45 - 60 minutes (depending on conditions) until firm enough to support weight also known as biscuit hard.

Floating

Using wooden or polystyrene boards to distribute body weight and prevent damage to the partially dry product, float the surface again by a light flick of water with a block brush or spray bottle and wood float gently to generate

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movement on the surface. Float again immediately with a steel trowel to close the surface and create a smooth finish. This will create the mottled effect. Do not re-suspend the screed, over-float or over water the surface as this will result in weakness in the floor with cracking or delamination.

Curing and Finishing

Allow to set hard over night. Lightly sand the surface with 80 grit sand paper by hand to ensure the surface is smooth and no projections are visible. Sweep and vacuum before sealing.

SEALING

Sealkote PU, Colour Retainer (2 coats)
Solidkote UVC Clear **Gloss** or Clear Matt (**2 coats**)
Solidkote UV Satin

MAINTENANCE

Regular cleaning extends the service life of the Nanoscreed HD system. Maintenance is to be carried out using Liquid Action which complies with SANS 1344 Medium Duty Solvent Detergent (2112/P3325/10/ID).

HEALTH AND SAFETY

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.

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