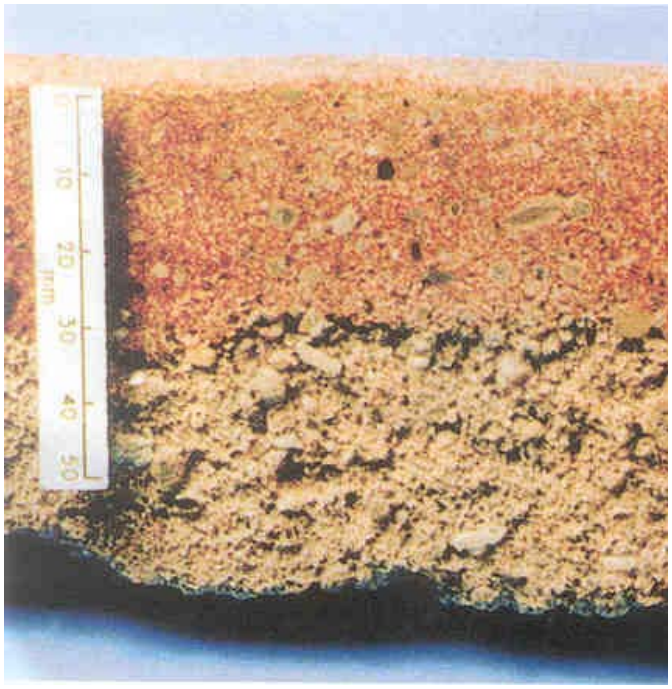
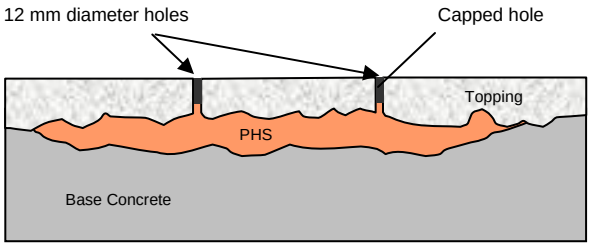
PHS for Stitch Pinning





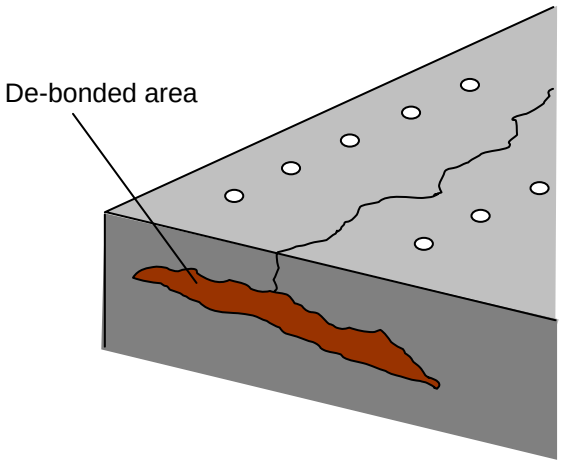
Description
An ultra low viscosity, solvent free liquid for re-strengthening and restoration of failed cement/sand screeds to Category A, BS8204-1, (BRE Screed Tester). PHS penetrates into the defective screed, filling voids and binding loose particles together to provide a high strength material.

Uses
To re-bond de-bonded cement/sand and granolithic screeds or for crack injection.

PHS is also used to re-strengthen and refurbish failed cement/sand screeds to a better than new condition with the minimum of down time and disruption to the occupants in heavy use areas such as hospital corridors, operating theatres and commercial buildings. See PHS datasheet.

Benefits

- Prevents progressive de-bonding
- Minimum disruption to occupants
- High speed installation, dramatically shortens overall programme
- Overnight cure for failed sand/cement screeds
- Low odour
- Installed by Flowcrete trained applicators



STITCH PINNING

12mm diameter holes
↓
Vacuuming
↓
PHS application
↓
Flowtex F1 Mortar to cap holes

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Flowcrete UK Ltd is a subsidiary of Flowcrete Group plc

Model Specification

Product: PHS (Penetrating Hardening System) for Stitch Pinning
Preparatory work and application in accordance with manufacturer's instructions.
Manufacturer: Flowcrete UK Ltd
Telephone: Customer Service - +44 (0) 1270 753000

PHS system to be supplied and installed on a scarified and vacuum cleaned existing screed in accordance with the instructions of Flowcrete, by trained applicators.

Installation Service

The installation should be carried out by a trained applicator with a documented quality assurance scheme. Obtain details of our trained contractors by contacting our customer service team or enquiring via our web site www.flowcrete.com

Products Included in this System

PHS @ 1 – 5 kg/m²
Historical records show average consumption for the whole area at 2 – 3 kg/m². Weaker areas of screed may take as much as 5 kg/m², stronger areas as little as 1 kg/m².

Commercial finish:

Sand: 1.0 – 2.0 mm Silica Sand blind @ 2.0 kg/m²
Repairs: Isocrete 4000 (as required to repair local areas)
Finish: Isocrete 1500 @ 5.1 kg/m² (3 mm)
- to receive soft floor finishes

Industrial Finish:

Sand: 1.0 – 2.0 mm Silica Sand scatter @ 0.5 kg/m²
Repairs: Flowtex F1 Mortar (as required to repair local areas)
Resin Finish: e.g. Flowshield SL @ 3.6 kg/m² (2 mm)

Detailed application instructions are available upon request.

Testing

Where visible floor marking is permissible, soundness of the screed – both pre and post installation – can be assessed using the BRE indentation test to BS8204-1.

Typical PHS treated Screed	< 1 mm
Category A	maximum 3 mm
Category B	maximum 4 mm
Category C	maximum 5 mm

The Stanger nail test can be utilised where carpet is in place (not BS approved).

Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Technical Information

UK Patent No. 2240977
The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Compressive Strength	77 N/mm² (BS6319)
Flexural Strength	74 N/mm² (BS6319)
Tensile Strength	60 N/mm² (BS6319)
Abrasion resistance BS8204-2	AR1/DF (very heavy duty)
Adhesion to cement:sand screed	Greater than cohesive strength of screed. >1.5 MPa.
Modulus in Tension ISO 527	2.81 GPa (Giga Pascal)
Modulus in Flexure ISO 178	2.64 GPa (Giga Pascal)
Freeze/thaw cycle test	No loss of adhesion
Water Permeability	Nil – Karsten test (impermeable)
Water Vapour Permeability	ASTM E 96:90 2 gms / m² / 24 hours

Speed of Cure

	20°C
PHS, light foot traffic	8 hours
PHS, full cure time	18 hours

Focus on the Floorzone

Flowcrete Group plc are world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few.
Our objective is to satisfy your Floorzone needs.

Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and repair of damaged floors reduce the need for further repairs and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

2006.11, 04 UK

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