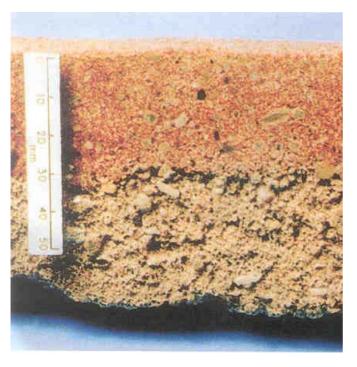


PHS (Penetrating Hardening System)



		SSIFICATION OF SCREEDS AND MITS FOR SCREEDS AT LEAST 14 DAYS	OLD
Category	Type of Use	Examples of Use	Acceptance limits - 4 drops of the weight - indentation not to exceed
А	Areas expected to take very heavy traffic and/or where any disruption at a later date would be unacceptable	Hospital operating suites and corridors leading to them. X-ray rooms. Rooms in animal or other research buildings requiring a microbe-free environment. Rooms where radioactive material is handled. Rooms requiring long-term dust-free atmosphere, e.g. telecommunication exchanges.	3 mm
В	Areas expected to take heavy traffic including heavy trolleys. Public areas.	Main corridors, lift lobby areas, circulation areas within stores, public foyers, canteens and restaurants. Public rooms in residential accommodation. Hospital wards.	4 mm
С	Other areas subjected to mainly foot traffic and light trolleys.	Offices, consulting rooms, domestic housing.	5 mm

Description

An ultra low viscosity, solvent free liquid for restrengthening and restoration of failed cement/sand screeds to Category A, BS8204 1987 Table 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-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.

To re-bond de-bonded cement/sand and granolithic screeds (see also separate PHS for Stitch Pinning data sheet).

Benefits

- Minimum disruption to occupants
- High speed installation, dramatically shortens overall programme
- Overnight cure for failed sand:cement screeds
- Dust free installations. No disruption or damage to other finishes.
- Impermeable to water
- Significantly exceeds BS8204 BRE test category A requirements for floor screeds
- Guaranteed to BRE Test Category A requirement for 15 years
- Solvent free
- Low odour
- Installed by approved applicators

Project References

National Westminster Bank; St. James Hospital; ASDA; Boots; Trafford Health Authority.

Model Specification

Product: PHS (Penetrating Hardening System)

Preparatory work and application in accordance with manufacturers

instructions.

Manufacturer: Flowcrete UK Ltd

Telephone: Customer Service - +44 (0) 1270 753000

The installation should be carried out by an approved applicator

with a documented quality assurance scheme.

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

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.

Installation Service

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

Testing

Testing and reports leading to detailed specifications can be undertaken by Flowcrete. 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.

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).

Focus on the Floorzone

Flowcrete are market 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.

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	n > 70 N/mm²	EN 13892-2
Flexural Strength	> 70 N/mm²	EN 13892-2
Tensile Strength	60 N/mm²	BS 6319-7
Bond Strength	2.2 N/mm ²	EN 13892-8
Reaction to fire	E*	EN 13501-1
Abrasion resistance	AR1/DF (very heavy duty)	B\$8204-2
Modulus in Tension	2.81 GPa (Giga Pascal)	ISO 527
Modulus in Flexure	2.64 GPa (Giga Pascal)	ISO 178
Water Vapour Permeability	2 gms / m² / 24 hrs	ASTM E 96:90
Capillary absorption permeability to water		o.5 EN 1062-3
Freeze/thaw cycle te	st No loss of adhesio	n

^{*}Commission Decision 2010-85-EU.

Speed of Cure20 °CPHS, light foot traffic8 hoursPHS, full cure time12 hours

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.

Important Notes

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.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.

2014.07, 08 UK

www.flowcrete.co.uk

Model Specification written for Flowcrete UK Ltd.
Please consult Technical Team in own country region for specific details.