



Permascreed

**Proprietary, Modified, Cement Based
Screeding System**

Permascreed

Technical Data

DESCRIPTION	» Proprietary, modified, cement based screeding system designed to meet the requirements of BS 8204 – 1:2003 and N.B.S. M10
COMPOSITION	» Ordinary Portland cement to BS EN 197-1 CEM1 52.5N combined with selected graded aggregates and special additives
ADVANTAGES	» Faster drying than ordinary cement based screeds Less prone to shrinkage cracking Fast drying and heavy duty designs available Screeds as thin as 19mm (bonded) may be laid
APPLICATIONS	» Permascreed can be laid:- Bonded to a base Unbonded Floating (on sound deadening or thermal insulation) In conjunction with underfloor heating systems
DAMP PROOF MEMBRANE (DPM)	» Permascreed may be laid over a DPM either as a bonded screed:- In conjunction with a proprietary 2 coat epoxy based dpm system Or unbonded:- On Bituminous dpm or other approved dpm NB Refer to screed thickness section
THERMAL OR SOUND DEADENING INSULATION	» Permascreed may be laid over rigid thermal insulation, ISD grade polystyrene and extruded polyethylene foam insulation Refer to screed thickness section
REINFORCEMENT	» For unbonded and floating screeds Permascreed can be reinforced with PP fibres with a strip of steel fabric to BS4483 Ref D49 across day joints.
PERFORMANCE	» These figures are indicative being an average of various aggregates tested.
Strength	» Permascreed has increased strength over ordinary cement/sand screeds allowing thinner sections, in a given situation
Compressive strength	» >25 Nmm ² after 28 days
Flexural strength	» >3 Nmm ² after 28 days
Density	» 1700 – 2000 Kg/m ³
Average hardening time	» For light floor traffic 2 days

PERMASCREED • PERMASCREED • PERMASCREED

Average drying time » This will vary with thickness, type of base, site conditions etc. A good guide is seven days per 25mm of screed (after curing period)

Residual Moisture » 2% by weight after 28 days

Thermal conductivity » $K = 1.6W/m^{\circ}C$

MINIMUM THICKNESS	» Bonded to solid base	19mm
	Bonded to pc units/block and beam	40mm
	Bonded to 2 coat epoxy dpm	19mm
	Bonded to treads	25mm
	Bonded to risers	20mm
	Cover over conduits	20mm
	Unbonded to dpm	40mm
	Unbonded to polythene	50mm
	Over insulation (domestic)	65mm
	Over insulation (commercial)	75mm

The above are the minimum thicknesses allowed in a given situation
Allowance should be made for base tolerance when specifying average thickness

PREPARATION

Bonded screed

» Mortar matrix to be removed from surface to expose aggregate. This can be achieved using either abrasive blasting or scabbling

Base to be damped down to reduce suction

Polymer latex bonding agent applied to base and Permascreed mixture laid onto bonding agent

Unbonded screed

» Apply polymer latex bonding agent to bituminous dpm and apply Permascreed mixture onto bonding agent

or

» Apply Permascreed mixture to dpm grade polythene or separating membrane

Use steel reinforcing mesh (D49) across all daywork joints

Floating screeds

» Apply mixed Permascreed mixture to insulation boards (covered with separating membrane)

Use steel reinforcing mesh (D49) across all daywork joints

BAY SIZES

» Permascreed should be laid in continuous strips as far as possible using simple vertical butt joints for daywork joints in bonded screeds (Reinforced with D49 mesh for unbonded or floating screeds)

CURING

» Permascreed should be covered with polythene for 7 days to ensure full hydration and strength gain before drying

PERMASCREED • PERMASCREED • PERMASCREED

FINSHES

- » Permascreed in common with all floor screeds, should not be used as the final floor finish

Permascreed is suitable to receive all types of floor finishes, eg. Carpet, vinyl tiles, sheet vinyl, ceramic tiles etc (see BS 8204 – 1:2003 7.9 when specifying thin sheet vinyls)

Permascreed (once cured) is unaffected by moisture and is considered suitable for all wet locations

SPECIFICATIONS

Bonded screed on solid base

- »mm Permascreed to be laid on prepared concrete base, bonded with polymer latex bonding agent as per manufacturers instructions

Unbonded screed on solid base

- »mm Permascreed to be laid on polythene dpm/separating membrane solid base reinforced at daywork joints with strip of D49 mesh as per manufacturers instructions

Underfloor heating systems

- »mm Permascreed to be laid on prepared proprietary underfloor heating system in two layers well compacted around heating pipework, reinforced at daywork joints with strip of D49 mesh as per manufacturer's instructions

Floating screed

- »mm Permascreed, mesh to be laid on and including ...mm insulation on a suitable prepared base, reinforced at daywork joints with strip of D49 mesh as per manufacturer's instructions

DPC Screeding Limited

Brunswick Industrial Estate

Brunswick Village

Newcastle upon Tyne

NE13 7BA

Telephone: (0191) 236 4226

Fax: (0191) 236 2242

e-mail: dpscreeing@btconnect.com

web: www.dpscreeing.co.uk