

Performance Levelling Screeds - Premier and Premier HD

Description

Premier and Premier HD Screed uses admixtures designed to accelerate the drying time of cement based screeds. The admixture improves durability, abrasion resistance and strength. These screeds have been developed by Premier Mortars to fulfil the need for factory produced high-performance cement sand levelling screeds suitable for all common floor finishes. Premier and Premier HD Screed also allows the drying times of cement based screeds to be reduced to 3-4mm per day as opposed to conventional screeds having a drying time of 1mm per day.

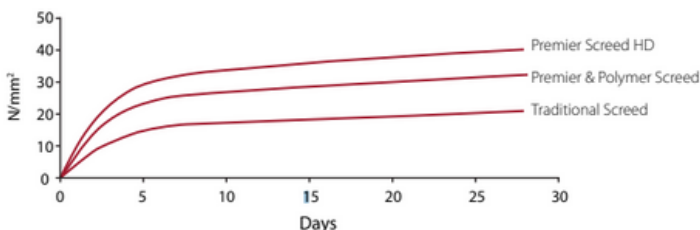
Benefits

- Increase early strength
- Faster acceptance of foot traffic to screed
- Thinner laying section: 45-50mm
- Drying time of 3mm per day
- Higher ultimate strength
- Improved abrasion resistance
- Reduced shrinkage of screed due to low water/cement ratio

Technical Specification

	Compressive Strength Class	Flexural Strength Class	Drying time (50mm section) mm/day
Premier Screed HD	C35	F3	3
Premier Screed	C30	F3	3

Strength Development



Applications

All of Premier Mortars performance levelling screeds are suitable for fully bonded, unbonded, floating and under heated screeds with or without fibre reinforcement. Fibres increase post crack performance and can be added to any Premier Mortars screed when requested. The screed is batched to produce a levelling screed that is capable of receiving floor coverings such as, tiles, wood, carpet, vinyl and other toppings listed in BS 8203:2001.

Bonded Construction (Minimum thickness 25mm)

The bond between the base and the levelling screed will depend on the thoroughness with which the base has been prepared. Scabbling to remove a weak surface layer and to expose the aggregate is recommended. A bonding agent must be used to obtain a good bond. The screed should be laid before the slurry dries or sets.

Unbonded Construction

Where no bond is possible between the base and the levelling screed it is necessary that Premier (HD) should be at least 45mm thick.

Floating Screed (Minimum thickness 65mm)

A levelling screed laid on a compressible layer such as thermal or sound insulating material should be at least 65mm thick. All conduits should be firmly fixed, covered with a suitable crack control mesh and given a minimum cover of 25mm. BS 8204-1 recommends that where possible pipes and conduits should not be laid within the thickness of a levelling screed.

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Technical and Authority

All Mortars performance levelling screeds are manufactured to the requirements of BS EN 13813 under a quality scheme certified to ISO 9001 and regularly tested to the requirements of the latest British Standards. All of our raw materials conform to British and European standards to ensure quality and consistency.

Materials and Manufacture

With the benefit of many years of experience in screed manufacture we have carefully selected the best performing specialist materials from around the UK.

The mixing process is carried out to fine tolerances using computer controlled batching plants, supervised by our experienced team of Plant Managers.

Our products contain blends of the following materials. Cement to BS EN 197 – 1 Well graded fine aggregate to BS EN 12629/BS EN 13139 Selected admixtures to BS EN934.

Suitable Bases

Premier, Premier HD and Polymer SBR Screeds are suitable for use on;

- Solid concrete ground floor slabs
- Reinforced precast concrete units and beams
- In situ suspended floors
- Topping to lightweight screeds
- Site storage screed should be tipped into a clean dry area and sheeted to protect from the elements

Compatibility

All Marshalls Mortars & Screeds performance levelling screed are compatible with all normal building materials, but wet cementitious products may attack certain materials e.g. aluminium.

Laying

Screed should be laid in accordance with BS8204.

Site Practice

All Marshalls Mortars & Screeds should be used in accordance with the recommendations in the Code of Practice in BS 8204.

Site Storage

Screed should be tipped into a clean dry area and sheeted to protect from the elements.

Preparation

The base substrate must be clean and in particular free from lime, gypsum, plaster, dust, oil and grease. Base concrete should be swept to remove any loose material and wetted with water. A bonding material should be applied just before the screed and care should be taken to ensure no deep pools are formed and the bonding agent does not dry before the screed is placed.

Hardening Times

Light foot traffic – 2 days*

Site traffic – 5 days*

*15°C and above

Curing

Premier and Premier HD Screed: For a 50 – 75mm cementitious screed an average drying time of 7 days per 25mm should be allowed before laying of the floor covering. For depths lower than 50mm the average drying time may be reduced to 3 days subject to the substrate being free from moisture.

Low temperatures or excessive moisture in the underlying concrete will delay the drying of the screed. Curing is always recommended for cementitious products. Protect the sand/cement screed from premature drying due to wind, strong sun and forced drying conditions.

Do not use hot air blowers, under floor heating or other means of accelerated drying during the early life of the screed. Forced drying using under floor heating may only be used in accordance with the relevant Code of Practice.

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Durability

No problems should occur if the correct screed material has been specified. Marshalls Mortars & Screeds are not designed as a wearing surface and should be covered with a flooring material.

Effect of Freeze Thaw

In cold conditions adequate precautions must be taken against freeze thaw. No antifreeze admixtures should be added to the mix.

Fire Protection

Marshalls Mortars & Screeds are classified as Class A1 without testing in accordance with BS EN 13501-1 (Commission Directive 96/603/EC).

Technical Support

Marshalls Mortars & Screeds provide a comprehensive sales and technical advisory service to specifiers and customers. A quality system has been implemented throughout the company where quality procedures conform with BS EN ISO 9001:2000. Details of certification status may be obtained from one of our customer service advisors.

Health and Safety

Contact with wet cement or materials containing cement can cause severe burns and contact dermatitis. Please consult our health and safety datasheet for further.

Delivery

All of our screeds can be delivered direct to site at a time to suit you, or collected in your own vehicle from your local depot. All of Marshalls Mortars & Screeds are set retarded for either 8 or 12 hours to ensure the correct workable life for the completion of your projects.

