

Factory Batched Screed

Ready to Lay Screeds

Marshalls Mortars and Screeds offer a range of ready to lay traditional and high performance cement: sand screeds, delivered direct to site or collected from your local depot, in small or large quantities and at competitive prices to meet your exact requirements.

With a range of vehicle types and delivery methods at our disposal we are confident that we can deliver your screed where you need it, when you need it.

Technical and Authority

All Marshalls Screeds are manufactured to the requirements of BS EN 13813 under a quality management systems certified to ISO 9001 and we are regularly tested to the requirements of the latest British and European standards to ensure quality and consistency.

All Marshalls Screeds should be used in accordance with the recommendations of the Code of Practice BS8204.

Materials and Manufacture

With the benefit of many years 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 washed fine aggregate to BS EN 12629 / BS EN 13139 / Selected admixtures to BS EN 934

Traditional Levelling Screeds

We can tailor our screeds to your exacting requirements to suit your application be they volume proportions or performance driven. All our traditional levelling screeds are set retarded for 8 hours to allow a full working day and are available with polypropylene fibre reinforcement on request.

Screed Strength

Traditional Proportions	BS EN 13813 Compressive Strength Class	BS EN 13813 Flexural Strength Class	Des Mix
1:3	C30	F3	20.5%
1:4	C20	F2	16%
1:5	C16	F1	13%

Further mixes are available on request to any volume proportion or strength specification. Please contact a member of our customer service team for further information.

Drying Time

Drying times should be calculated at one month per 25mm of screed thickness. Depths of screed over 50mm should be allowed to dry for at least two months per 25mm of thickness.

Substrates with a high moisture content, low ambient temperature and low temperatures will significantly increase drying times.

Stated drying times apply from the end of the specified curing period and the moisture content of the screed must be checked by the flooring contractor before the application of the final finish.

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Hardening Times

Light Foot Traffic 4 Days

Site Traffic 7 Days

Low ambient temperatures may extend hardening times

Site Practice

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

Screed should be tipped onto a clean impermeable board or sheet, and be protected from the elements with sheeting. Do not tip fresh deliveries onto previous loads.

Please ensure a suitable area is available for tipping or unloading prior to the vehicle arriving. Screed not used within the retardation period is not reworkable and should be disposed of accordingly.

Standard Applications

Traditional Properties	Applications
1:3	Heavy Duty
1:4	General Purpose
1:5	Light Duty

Durability

No problems should occur if the correct screed material has been specified. All Marshalls Screeds are designed to receive a final floor finish; they must not be used as a finished wearing course. In cold conditions precautions must be taken to avoid the effects of freeze thaw attack. No antifreeze chemicals should be added to screeds.

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 screeding and care should be taken to ensure no deep pools are formed and the bonding agent does not dry before the screed is placed.

Strength Class

BS EN 13813 Compressive Strength Class	BS EN 13813 Flexural Strength Class	Applications
C30	F3	Heavy Duty
C20	F2	General Purpose
C16	F1	Light Duty

Application

Monolithic Construction	Minimum Thickness 15mm
Bonded Construction	Minimum Thickness 40mm
Unbonded Construction	Minimum Thickness 50mm
Floating Construction	Minimum Thickness 75mm

Curing

Screeds must be protected from damage after laying. To achieve the specified performance it is essential that screed is covered with plastic sheeting or other suitable material for a minimum of 7 days to retain moisture for curing. Do not use hot air blowers, under floor heating or other means or 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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Fire Protection

Marshalls Screeds are classified as Class A1 without testing in accordance with BS EN 13501-1 (Commission Directive 96/603/EC). Cement and cement containing preparations can cause severe chemical burns and dermatitis, please consult our safety datasheet for full details.

Premier Screed Range

Our Premier Screed range was specifically developed for the high performance market, where higher strength and rapid drying times are required. Premier Screed has better working properties than a traditional levelling screed providing easier compaction, faster earlier strength development, reduced shrinkage and greater final strength. Our Premier Screed products come reinforced with polypropylene fibres.

Hardening and Drying Times

Premier Screed under typical conditions are ready to receive light foot traffic after two days and site traffic after seven. Allow 7 days per 25mm if thickness drying time under optimal conditions. If the screed is very thick or the substrate has a high moisture content drying times will be extended. The moisture content of the screed should be checked prior to the application of the floor finish.

Standard Mixes

Product Name	BS EN 13813 Compressive Strength Class	BS EN 13813 Flexural Strength Class
Premier Screed	C30	F3

Terrazzo Tiling

Our Screeds can be specifically modified by terrazzo tiling applications. Please contact our customer services team for further information or advice.

