

## Marshalls Retanol Screed

### Descriptions

Marshalls Retanol screed is a factory batched floor screed designed to allow the installation of fast track, low shrinkage and low tension bonded, unbonded and floating cementitious floor screeds.

### Benefits

- Vastly reduced drying times enable the final floor finish to be installed much earlier
- Foot traffic after 24 hours
- MEWPS and Fork Lift traffic after 7 days for bonded and unbonded screeds
- Faster strength development-achieves 80 to 90% of final flexural and compressive strength within 4 – 5 days
- Extended working life with shorter drying time
- Improved workability allowing for easier installation and compaction
- Enhances pumping of screed
- Ideal for underfloor heating systems with enhanced thermal conductivity due to higher self-compaction and reduced air pores

### Material Properties

- Fresh wet uncompacted density – 1800-2000kg/m<sup>3</sup>
- Compacted set and dried density – 2000-2200kg/m<sup>3</sup>
- Compressive strength (BS EN 13813) >C40 N/mm<sup>2</sup>
- Flexural strength (BS EN 13813) >F6 N/mm<sup>2</sup>
- (Results based on testing to BS EN 13892-2)

### Applications

Marshalls Retanol screed is suitable for fully bonded, unbonded and floating screeds. It is also suitable for use in high traffic areas such as airports, shopping centres and hospitals where a high strength (category A) is needed.

This screed is manufactured to produce a levelling screed that is capable of receiving floor coverings such as tiles, wood, carpet, vinyl and other toppings listed in BS8203.

### Materials and Manufacture

Marshalls Retanol screed is manufactured to the requirements of BS EN 13813 under a quality scheme certified to ISO 9001 and regularly tested to the requirements of British standards.

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 using computer controlled batching plants ensuring materials are batched accurately with fine tolerances.

Marshalls Retanol screed contains blends of the following materials.

- Well graded fine aggregate conforming to BS EN 13139/ BS EN 12620
- Portland Cement conforming to BS EN 197-1
- Retarding and water reducing admixtures conforming to BS EN 934-2/3
- Water conforming to BS EN 1008

### Suitable Uses

- Solid concrete floor slabs
- Reinforced precast concrete units and beams
- In situ suspended floors
- Topping for lightweight screeds

Marshalls Retanol screed is compatible with all normal building materials. Cementitious products may attack certain materials e.g. aluminium.

### Site Practice

All Marshalls screeds should be used in accordance with the recommendations in the Code of Practice in BS EN 8204.

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

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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 pools are formed and the bonding agent does not dry before the screed is placed.

Screed should be laid in accordance with BS EN 8204.

### Curing and Drying

Marshalls Retanol screed does not require curing under polythene. However, the screed should be protected from wind, excessive heat and strong sunshine, and enforced drying conditions during its natural drying process.

Do not use hot air blowers, underfloor heating or any other means of accelerated drying during the early life of the screed.

Allow approximately 3 days for each 25mm depth of screed. High humidity and low temperatures will delay the drying out process. The area should be ventilated to allow the necessary air exchange to support the drying process. This can be achieved by opening all doors and windows for 15 minutes at least 3 times a day.

The flooring contractor must check the moisture content of the screed before the final floor finish is installed. The most accurate and reliable way of doing this is via a Calcium Carbide Moisture (CM) Test. Once it is sufficiently dry as confirmed by the appropriate CM Test, any Retanol floating screed will not require a damp proof membrane.

### Fire Protection

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

### Health and Safety

Contact with wet cement can cause chemical burns and contact dermatitis. Please consult our health and safety datasheet for further information.

### Delivery

As with our range of screeds Marshalls Retanol screed can be delivered direct to your site at a time to suit you or collected in your own vehicle from your local depot. Marshalls Retanol screed is retarded for 12 hours to ensure the correct workable life for the completion of your projects.

### Recommended Thickness of Screed

Type of Construction	Minimum Thickness
Monolithic	12-15mm no more than 25mm
Bonded	15mm
Unbonded	35mm
Floating	35mm

When installing Marshalls Retanol screed over underfloor heating pipes, please note that a minimum of 30 mm coverage over the top of the pipes is required (as per BS 8204).