

Product Data Sheet: Sand Cement Screed - Data Sheet No. 001

Product Name

Sand Cement Screed

Supplier

National Screed



Introduction

All National Screed products are factory produced from our state of the art fully automated batching plants. All National Screed products are factory-produced in our state-of-the-art, fully automated batching plant. Our screeds are suitable for a range of applications and incorporate fully tested admixtures. We provide screed ready for use at the correct consistency, without the need for further on-site mixing.

Technical Information

All our screeds are supplied and manufactured in accordance with the requirements of BS EN 13813. We offer a comprehensive technical sales and support service for specifiers and customers. Appointments can be arranged for site visits, and we are always happy to attend pre-start site meetings.

Constituents & Manufacture

All constituent materials used in the production of our complete range of products are carefully selected, accurately proportioned to ensure a consistent finished product. Admixtures are used to ensure the screed remains workable for a predetermined amount of time to fulfil site requirements.

Strength & Durability

When specified correctly and used in accordance with the relevant Codes of Practice, the screed will provide a durable solution for the intended design life of the building. Our screeds provide excellent durability using carefully selected materials and accurately controlled production. Factory production provides a level of consistency that would be extremely difficult to replicate with site-mixed material. Screed should not be used as a final wearing surface unless specifically designed for that purpose.

Screed Strength Available

CT-C16-F4
CT-C20-F4
CT-C25-F5
CT-C30-F6
BS 8204-1 ISCR Category A, B, C

Density

Typical Results	Density (kg/m3)
Fresh Wet Sample	2200
Dried & Cured	2100

Application Types

Bonded

Bonded screed must be a minimum thickness of 40mm. The bond quality depends on the diligence used in the preparation work carried out. The concrete substrate must be swept clear of any dust and other contaminants such as oils, grease, soil, lime or gypsum-based products. Before the screed is placed, an appropriate bonding agent must be applied to the substrate. The screed should be placed while the bonding agent is still active and before it has dried.

Unbonded

Where it is not possible to achieve a complete bond between the screed and substrate, a suitable separating membrane should be installed over the substrate. The minimum depth should be 40mm and if under floor heating pipes are installed the depth should be increased to 65mm.

Floating

Screed laid over insulation for acoustic or thermal purposes must be a minimum of 65 mm thick, or 75 mm where underfloor heating is incorporated. All pipework must be firmly secured and pressure-tested prior to laying the screed.

Freeze Thaw Resistance

In freezing conditions, adequate precautions must be taken to protect the screed from frost and freeze-thaw damage.

Delivery and Storage

Screed can be pumped; however, when a pump is required, please inform us when placing your order. Loose screed should be discharged onto a clean plastic sheet to prevent contamination and excessive moisture loss. Protection from excessive rain, frost and extreme heat is necessary.

Never tip a new load of screed on top of the remains of a previous load.

Specialist Screeds

Our specialist screeds have been developed for higher performance requirements, such as, greater strength, reduced drying periods, improved compaction compared with traditional screed and reduced risk of shrinkage and cracking. All our specialist screeds have the addition of polypropylene fibres.

Drying times

In good conditions, you should allow 25 mm thickness per month up to 50 mm. Where screed depths are greater than 50 mm you should double the drying time and allow 2 months drying per 25 mm. When the substrate has high moisture content the drying times will be increased. High humidity and low temperatures can also extend drying times.

Curing

After laying the screed, curing is recommended by covering the surface with a plastic sheet to help retain moisture within the screed. Lightly dampening the screed before covering may also be appropriate; however, the screed must never be saturated, as this may adversely affect its performance.

Placing an Order

When ordering, please be aware of the required screed type, quantity in tonnes or cubic metres and your preferred time of delivery.

Prices

Prices will vary according to mix designs, quantity and delivery locations. For a precise quotation please call our sales office on 01-6240004.

Health & Safety Information

Contact with wet cement can cause serious burns and can lead to contact dermatitis. All persons who may come into contact with wet cementitious mortar must read and understand our Safety Data Sheet and use the appropriate personal protective equipment (PPE).

Further Requirements

If you require any further information or technical support with any of our range of products, please do not hesitate to contact us on 01-6240004 or info@nationalscreed.ie.