

## Floor screeds

Tarmac offer a choice of conventional cement-based floor screeds - ready to use cement:sand screed, *Tarmac Truscreed* and *Truscreed HD*, *Tufscreeed F*, *SBR Polymer Screed* and *Truflow*, a free-flowing calcium sulfate screed.

**Introduction** Tarmac cement:sand screed, *Truscreed* and *Truscreed HD*, *Tufscreeed F* and *SBR Polymer Screed* are traditional, factory-produced sand:cement floor screeds. Their quality, strength and good consistency mean they are suitable for all common floor finishes. Advantages over traditional site mixing include reduced hardening time for early strength development and reduced drying shrinkage. Also offered in the Tarmac range is a calcium-sulfate based flowing screed that is delivered ready-mixed and is designed to be pumped into place with minimal finishing required. **Tarmac ready to use cement:sand screed**

A correctly proportioned factory-mixed screed for flooring and roofing applications. Available from factories situated throughout the UK, Tarmac screeds are normally delivered early morning and retarded in order to remain workable for 8 - 12 hours.

### *Tarmac Truscreed* and *Truscreed HD*

systems were developed by Tarmac to fulfil the need for factory-mixed high performance cement:sand screeds suitable for all common floor finishes. It features:

- Better working properties providing easier and more reliable compaction
- Quicker early strength development and faster drying out permits earlier trafficking of the floor
- Greater final strength
- Reduced drying shrinkage resulting from lower water/cement ratio
- Good resistance to construction traffic and dusting

**Applications** Suitable for all traditional floor finishes:

- Solid concrete floor slabs - directly in contact with the slab, with a DPM between slab and screed or over an insulating layer isolating the screed from the base
- Precast concrete units or beams with reinforcement
- In situ concrete suspended floors as a top layer to lightweight aggregate screeds

*Truscreed HD* can be used for floors subjected to particularly arduous service but should not normally be regarded as a final wearing surface. *Truscreed* can be used in sound insulation, thermal and weight reduction applications.

**Authority** *Tarmac Truscreed* and *Truscreed HD* conforms to the recommendations in Code of Practice BS 8204. The relevant Standard for ready to use cement:sand screed is BS EN 13813.

### DESCRIPTION

**Composition, manufacture** *Tarmac Truscreed* and *Truscreed HD* are thoroughly mixed, accurately controlled blends of the following materials:

- Well graded washed sand conforming to BS EN 12620 and/or BS EN 13139
- Cement to BS EN 197-1
- Retarding/water reducing admixture to BS EN 934 giving increased strength and the correct working time. Normally usable for 8 to 12 hours from the time of mixing
- Water to give the correct semi-dry consistency for easy laying and thorough compaction

### PERFORMANCE

**Mechanics** Compressive strength, depends upon screed designation.

**Fire** Both *Tarmac Truscreed* and *Truscreed HD* are classified as Class A1 (without testing) as defined in BS EN 13501.

### *Tarmac Tufscreeed F*

Developed by Tarmac to meet the increasing demand for factory-mixed cement:sand screeds of all designations incorporating an even dispersion of polypropylene fibres.

**Applications** *Tufscreeed* is ideally suited for use in hospitals, offices, superstores, industrial and other applications where there would be a high cost in loss of use through floor failure due to surface cracking of screed.

**Authority** As for *Truscreed*.

### DESCRIPTION

**Composition, manufacture**

*Tarmac SBR Polymer Screed* is a thoroughly mixed, accurately controlled blend of the following materials:

- Well graded washed sand conforming to BS EN 12620 and/or BS EN 13139
- Cement to BS EN 197-1
- Polypropylene fibres (normally 6 mm)
- Retarding/water reducing admixture to BS EN 934 giving increased strength and the correct working time. Normally usable for 8 to 12 hours from the time of mixing
- Water to give the correct semi-dry consistency

### PERFORMANCE

**Mechanics** Compressive strength depends upon screed designation.

**Fire** *Tarmac Tufscreeed* is classified as Class A1 (without testing) as defined in BS EN 13501. Polypropylene fibres are combustible, but in this form will not support combustion.

*Tarmac SBR Polymer Screed* was developed to meet the demand for factory-mixed cement:sand screeds with the inclusion of a synthetic polymer resin to give increased toughness and bond properties.



**Applications** Suitable for use on the following bases:

- Refurbishment work and for thinner well bonded screeds over suitably prepared concrete where it is impossible to achieve normal minimum thickness
- Solid concrete ground slabs: directly in contact with the slab, with a DPM between slab and screed or over an insulating layer isolating screed from base
- Precast concrete units or beams with reinforcement
- In situ suspended floors
- All applications are subject to minimum thickness requirements

**Authority** Use in accordance with the recommendations of Codes of Practice BS 8204 and BS 8000: Part 9. The relevant Standard for

*Tarmac SBR Polymer Screed* is BS EN 13813.

### DESCRIPTION

**Composition, manufacture**

*Tarmac SBR Polymer Screed* is a thoroughly mixed and controlled blend of the following:

- Well graded washed sand conforming to BS EN 12620 and/or BS EN 13139
- Cement to BS EN 197-1
- Styrene Butadiene resin polymer emulsion
- Retarding/water reducing admixture to BS EN 934 giving increased strength and the correct working time. Normally usable for 8 to 12 hours from the time of mixing
- Water to give the correct semi-dry consistency for easy laying and thorough compaction

*Tarmac Truflow, calcium sulfate based floor screed*

A ready-mixed screed that may be laid without expansion joints or reinforcement. It is pumped into place and offers the following features:

- Self-levelling and self-compacting
- Time saving

- Suitable for thermal and sound insulation applications
- Can generally be trafficked within 48 hours

**Applications** Suitable for thermal and sound insulation applications; typical applications are office buildings, hospitals, laboratories and theatres.

### DESCRIPTION

**Composition, manufacture**

The screed comprises a mix of calcium sulfate, sand, water and specially formulated additives. These constituent materials are mixed and delivered to site in a conventional truckmixer.

### PERFORMANCE

**Mechanics** Two grades of screed are available, each designed to satisfy the soundness requirements defined in BS 8204: 2003. Shrinkage and curling are virtually eliminated.

**Fire** *Tarmac Truflow*, calcium sulfate-based screed is classified as Class A1 (without testing) as defined in BS EN 13501.

### SUPPLY

**Delivery is as follows:**

*Tarmac ready to use cement: sand screed* - tippertruck, skips or bags; *Truscreed* and *Truscreed HD* - as above;

*Tufscreeed F* - as above;

*SBR Polymer Screed* - tippers and skips;

*Tarmac Truflow, calcium sulfate based screed* - truckmixer.

### SERVICES

Full technical assistance is offered to specifiers from dedicated teams of advisers located throughout Britain.

### Tarmac Limited

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### Technical Literature:

Literature on individual products is available from the company