

# TECHNICAL INFORMATION

## TARMAC CEMSCREED 1

### Product Data Sheet: Flooring Screed and Underlayment

#### DESCRIPTION

**Cemscreed 1** is a proprietary cement based binder for producing a rapid drying and rapid setting high strength floor screed. The binder is factory blended under controlled conditions and all that is required at site is the addition of a suitable aggregate and water. This improved control of components critical to the performance of the finished screed helps eliminate common problems caused by site batching.

#### USES

**Cemscreed 1** is used to produce bonded, unbonded and floating screeds in internal situations where site access time is limited and a rapid return to service is required. Example uses include schools, supermarket domestic properties.

#### ADVANTAGES

- Delivered factory-produced under procedures certified to BS EN ISO 9001
- Accessible to foot traffic within 8 hours.
- Floor finishes can be laid after 24 hours
- Can be used for the rapid repair of existing floor screeds
- Suitable for use over under-floor heating systems

#### COVERAGE PER BAG

Depth of Screed	3:1	4:1
25mm	2.25m <sup>2</sup>	3m <sup>2</sup>
30mm	1.87m <sup>2</sup>	2.5m <sup>2</sup>
35mm	1.6m <sup>2</sup>	2.1m <sup>2</sup>
40mm	1.3m <sup>2</sup>	1.87m <sup>2</sup>
50mm	1.1m <sup>2</sup>	1.5m <sup>2</sup>
60mm	0.93m <sup>2</sup>	1.25m <sup>2</sup>

Table 1: Approximate coverage per 25kg bag.

#### PERFORMANCE CHARACTERISTICS

Mix Ratio	3:1	4:1
Density	1800 – 2100kg/m <sup>3</sup>	1800-2100kg/m <sup>3</sup>
Working Time	Approx. 15 mins	Approx. 30 mins
Soundness	Category A	Category B
Drying Time (1)	24 hours	3 days
Application Temperature	5°C – 35°C	5°C – 35°C
Alkali Resistance	Excellent	Excellent
Oil Resistance (not vegetable oil)	Excellent	Excellent
Solvent Resistance	Excellent	Excellent

Table 2: Typical physical properties

(1) At 23°C and 50% relative humidity. Tested using dried sand. All moisture testing completed using carbide method.

#### CODES OF PRACTICE

Installation should be carried out in accordance with the relevant sections of the code of practice BS 8204.

#### MIXING

**Cemscreed 1** should be mixed consistency using a forced action mixer. It is important that the screed is not over watered as this will increase drying time and can cause material segregation. Do not mix by hand. Always use clean equipment and do not use other cements, lime or screed additives.

Sand used should be a good quality 0/8 screeding sand. For thin sections a 0/4 screeding sand can be used. Never remix screed that has begun to set.

For more details contact:  
 03444 630 046 [pozament@tarmacbp.co.uk](mailto:pozament@tarmacbp.co.uk)

## INSTALLATION

It is necessary to provide adequate ventilation in the work area but windows and openings must be closed sufficiently to avoid draughts during and after application. Floor and indoor temperatures must exceed 6°C and for one week after the application. If the relative humidity of the concrete floor is above 75% the use of **Tarmac Epoxy DPM** should be considered. Reference should be made to BS 8204 for suitable installation procedures.

## RAPID DRYING AND WATER CONTENT

Rapid drying of the screed requires a minimum working temperature of 20°C and no excessive water being used at the mixing stage. Use only the required water to produce a workable semi dry screed.

The total overall moisture content should not exceed 11 litres of water per 25kg of **Tarmac Cemscreed 1** cement. Where the concrete substrate retains moisture which could delay the drying of the screed then **Tarmac Cemscreed 1** should be isolated from the slab using a suitable damp proof membrane. Low temperatures may retard the rate of drying and hardening, and high temperatures may increase the drying and hardening rates.

## SAND

Sand used should be suitable for the desired screed usage and compliant with BS 8204.

## APPLICATION AND THICKNESS

**Tarmac Cemscreed 1** should be mixed, placed and compacted in exactly the same way as a conventional sand/screed, with the exception that the working time is reduced to approximately 15 minutes depending upon the ambient temperature conditions. Care should therefore be taken to ensure that only sufficient screed that can be used in time is mixed

## BONDED SCREEDS

Concrete substrates should be sound and in generally good condition. The concrete should be shot blasted or scabbled and vacuum cleaned prior to **Tarmac Cemscreed 1** application. The concrete substrate should be primed using **Tarmac Acrylic Primer** as per the instructions on the technical datasheet.

Minimum Thickness = 30mm

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## BONDED SCREED WITH DPM

When laying onto a new concrete slab or onto a high humidity substrate, **Tarmac Cemscreed 1** can be used with **Tarmac Epoxy DPM** blinded with 8/16's sand at 1.5 – 1.7kg per m<sup>2</sup> to provide a bonded screed combined as a damp proof membrane. The concrete substrate will require shot blasting and vacuum preparation prior to the application of the Epoxy Primer DPM. See

Minimum Thickness = 30mm

## UNBONDED AND FLOATING SCREEDS

**Tarmac Cemscreed 1** laid onto insulation board should be regarded as a floating screed.

Minimum Thickness = 75mm

All walls and columns should be isolated by separation joints. Movement should be controlled and allowed for by incorporating approved jointing methods. Further information on these can be found in BS 8204.

## SPECIFICATION WRITING SERVICE

Tarmac are able to provide NBS specification clauses for the use of **Cemscreed 1**. Please contact our sales office for more information.

## QUALITY CONTROL

All Pozament products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001.

## CLEAN UP AND SPILAGES

Dry powders should be swept up and disposed of in accordance with the Local Authority.

## PACKAGING AND STORAGE

**Tarmac Cemscreed 1** is available in nominal 25kg sacks, palletised and shrink wrapped. **Tarmac Cemscreed 1** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised **Tarmac Cemscreed 1** should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high.

The product should be used on a first in – first out basis.

Shelf life is minimum 3 months when properly stored but could be in excess of 6 months subject to temperature and humidity.

### **INFORMATION, PRICES & ORDERING**

For technical information, pricing and to place orders contact our Sales Office on the following:

Telephone: **03444 630 046**

Email: **pozament@tarmacbp.co.uk**

Visit our website: **pozament.co.uk**

Tarmac Building Products Ltd.,  
Swains Park Industrial Estate, Park Road, Overseal,  
Swadlincote, Derbyshire, DE12 6JT

### **HEALTH & SAFETY**

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products.

Contains Portland Cement Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk to serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children.

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The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.