TARMAC
A CRH COMPANY

TECHNICAL INFORMATION

TARMAC CEMSCREED

Product Data Sheet: Flooring Screed and Underlayments

DESCRIPTION

Cemscreed is a proprietary cement based binder for producing an early drying and 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. **Cemscreed** is supplied pre-blended with fibres for additional reinforcement.

USES

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

ADVANTAGES

- Delivered factory-produced under procedures certified to BS EN ISO 9001
- Accessible to foot traffic within 24 hours.
- Floor finishes can be laid after 7 days
- Can be used for the rapid repair of existing floor screeds
- Suitable for use over under-floor heating systems
- Compliant with the requirements of BS EN 13813

COVERAGE PER BAG

Depth of Screed	3:1	4:1
25mm	1.8m^2	2.4m^2
30mm	1.5m^2	2.0m^2
35mm	1.3m^2	1.7m^2
40mm	1.1m^2	1.5m^2
50mm	0.9m^2	1.2m^2
60mm	0.75m^2	1.0m^2

Table 1: Approximate coverage per 20kg bag.

PERFORMANCE CHARACTERISTICS

Mix Ratio	3:1	4:1
Density	1800 – 2100kg/m^3	1800-2100kg/m3
Working Time	Approx. 60 mins	Approx. 60 mins
Soundness	Category A	Category B
Dying Time (1)	7 Days per 25mm	7 days per 25mm
Application Temperature	5ºC – 35ºC	5ºC – 35ºC
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.

QUALITY CONTROL

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

MIXING

Cemscreed should be mixed to a damp earth 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 comply with the grading limit in BS 8204-1.

For more details contact:
03444 630 046 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 ambient temperatures must exceed 6ºC and for one week after the application. The relative humidity of the concrete floor must not exceed 95% without the use of a DPM.

UNDERFLOOR HEATING

When screeding over conduits or heating pipes there must be a minimum cover of 25mm above the pipes. In addition reinforcement should be placed over the pipes. Underfloor heating should be pressured by increasing to the operating temperature for several days before installing the screed. It is recommended that the commissioning instructions provide by the heating pipe manufacturer should be followed.

MOISTURE CONTENT

Where the concrete substrate retains moisture which could delay the drying of the screed then **Tarmac Cemscreed** 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 reduce the hardening and drying times.

CURING

Cemscreed should be cured under polythene for a minimum of 5 days for bonded floors and 10 days for unbonded or floating floors.

APPLICATION AND THICKNESS

The working time of the **Tarmac Cemscreed** is approximately 1 hour at 20°C, therefore the material must be placed, compacted and finished without delay. The quantity of the screed mixed should be limited to allow spreading, tamping and levelling to be completed within the working time.

BONDED SCREEDS

Concrete substrates should be sound and in generally good condition. Coarse aggregate should be exposed by scabbling or abrasive blasting and the substrate should be vacuum cleaned prior to **Tarmac Cemscreed** application. The concrete substrate should be primed using Tarmac Acrylic Primer as per the instructions on the technical datasheet.

Minimum Thickness = 30mm

BONDED SCREED WITH DPM

When laying onto a new concrete slab or onto a high humidity substrate **Tarmac Epoxy DPM** should be used as per the instructions on the relevant technical datasheet. The DPM should be blinded with 8/16 sand to provide a bonded screed combined with a damp proof membrane. Concrete substrates should be sound and in generally good condition. Coarse aggregate should be exposed by scabbling or abrasive blasting and the substrate should be vacuum cleaned prior to **Tarmac Cemscreed** application.

Minimum Thickness = 30mm

UNBONDED AND FLOATING SCREEDS

i) **Tarmac Cemscreed** laid onto applied damp proof membranes should be regarded as fully unbonded.

Minimum Thickness = 40mm

ii) **Tarmac Cemscreed** 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 Specifications for **Cemscreed**. Please contact our sales office for more information.

CLEAN UP AND SPILAGES

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

For more details contact:
03444 630 046 pozament@tarmacbp.co.uk

TARMAC.COM

PACKAGING AND STORAGE

Tarmac Cemscreed is available in nominal 20kg sacks, palletised and shrink wrapped. **Tarmac Cemscreed** may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised **Tarmac Cemscreed** 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.,
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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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