

DATA SHEET

TALCEM

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Rapid-setting Cement

Description

Talcem is a specially formulated rapid-setting Grey Cement specifically designed for installations where curing times of conventional (OPC) materials cannot be adhered to.

Talcem should be mixed with a well-balanced envelope of fine, medium and coarse Aggregate (size of coarse Aggregate to be no greater than 6mm) and clean (potable) water, for the preparation of rapid-setting shrinkage-compensated Screeds, Toppings and Renders for interior and exterior applications.

At 20°C **Talcem** based Screeds and Toppings can be subjected to **light** foot traffic after 6 hours.

Tiles may be fixed after 48 – 72 hours, **once the moisture content is 5% or less**. Other floor and wall coverings, such as vinyl and carpeting, may be fixed after approximately 72 – 96 hours, **once the moisture content is tested suitable for the selected floor covering**.

After 1 day, the compressive strength and flexural strength of **Talcem** Screeds and Toppings exceed the level normally attained using conventional cement/sand screeds after 7 days.

It is imperative that the Talcem + Aggregate material is not overwatered when mixing, and that it is not 'watered' after it has been applied.

Note : This product is designed for the above mentioned application only. TAL will not be liable for misuse or adulteration of the product.

Laboratory Test Data

Type	Highly modified rapid-setting cement
Colour	Grey
Setting Type	Rapid Setting
Pot life*	1 Hour
Open Time* (Working Time After Mixing)	30 Minutes
Initial Set*	3 Hours
Trafficable (light) After*	6 Hours
Floor Covering Installation*	72 – 96 Hours, depending on application thickness and ambient conditions
Compressive Strength (1:3 Mix)	
- 1 Day	25.5 MPa (N/mm ²)
- 7 Days	35.0 MPa (N/mm ²)
- 28 Days	40 – 50 MPa (N/mm ²)
Flexural Strength (1:3 Mix)	
- 1 Day	3.5 MPa (N/mm ²)
- 7 Days	4.1 MPa (N/mm ²)
- 28 Days	6.6 Mpa (N/mm ²)
Application Temperature Range	10°C - 30°C

Temperature Resistance	-30°C - +100°C
Mix Proportions (Cement : Dry Sand, by Volume)	
- Screeds	1:3
- Renders	1:4 – 1:5
Optimum Water :Cement Ratios	
- Screeds	0.4
- Renders	0.8
Min Application Thickness	20mm (Bonded Screed)
Max Application Thickness	Dependant on Aggregate size
Density	1.21
Pack Size	25kg

***At 25°C and 50% relative humidity.**

The above data was obtained under Laboratory conditions using freshly manufactured material. Actual results in the field will vary as a result of factors such as Ambient Temperatures, Site Conditions, etc.

Packaging

25kg bags.

Approximate Coverage

50kg Talcem (2 Bags) is sufficient for :

Screed : 2.2m² at 50mm thickness, when used as a 1 : 3 mortar

Render : 12m² at 10mm thickness, when used as a 1 : 4 mortar

Shelf Life & Storage

12 months from date of manufacture when stored in dry internal conditions between 10°C and 30°C and out of direct sunlight. **To protect from damp never store directly on a concrete floor.**

Installation / Health & Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly.

[NB : Please refer to the Method Statement \(MS\) and Material Safety Data Sheet \(MSDS\) prior to the purchase and use of this product.](#)

TAL Technical Advice Centre

For advice or a detailed Materials and Methods Specification contact the TAL Technical Advice Centre on 0860 000 TAL(825), or e-mail taltech@taltech.co.za.

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Important Notice:

TAL believes the information on this sheet to be correct – but does not guarantee its accuracy or completeness. Conduct your own tests of this product to determine its suitability for intended use. User assumes all risks and liability during testing and use of this product. In special cases, obtain professional advice. The only obligation of TAL shall be to replace any of this product proved to be defective in material. TAL shall not be liable for any injury, loss or damage, direct or consequential, relating to the use or inability to use this product. Except as expressly provided above, all products sold and samples furnished without any warranty of merchantability or any other warranty, express or implied. TAL reserves the right to change the information on this datasheet. Please contact the TAL Technical Advice Centre on taltech@tal.co.za, or 0860 000 825 to ensure you have the latest version.