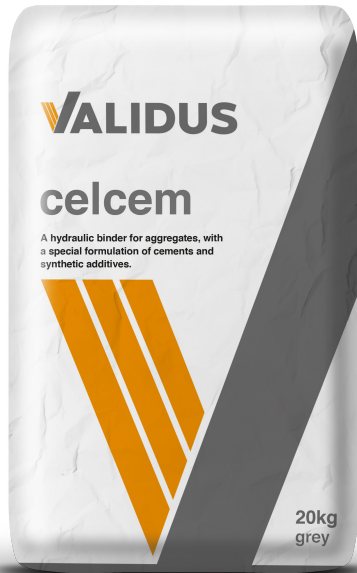




A rapid setting pre-blended mortar with a special formulation of cements and synthetic additives for fast drying bonded, unbonded or floating screeds with controlled shrinkage.

- ▼ Ideal for fast-track on-site preparation of screeds
- ▼ Floating screed walkable on in 6 hours
- ▼ Dry to a humidity of < 2% in 96 hours
- ▼ Suitable for use in industrial environments subject to heavy or intense traffic
- ▼ Suitable for application over existing ceramic & porcelain floors
- ▼ Interior and exterior use
- ▼ Shrinkage-free

Pot Life: 30 mins
Walk on After: 90 mins
CT C60 F10
EN 13813:2004

STORAGE:

The product must be stored unopened and sealed, in its original packaging in a cool, dry place.

SHELF LIFE:

Approximately 12 months from the date printed on the side of the packaging.

TECHNICAL FEATURES:

Validus Celcem is a mixture of special high resistance cements, synthetic additives and selected aggregates for the preparation of screeds exempt from shrinkage, classified according to EN13813 CT C60-F10 A1fl .

Its composition, mixed on-site with water, allows the construction of supporting and floating screeds (even heated) up to 80mm thick, suited to receive the laying of ceramic tiles after only 3 hours* and of wooden and resilient floors after only 4 hours*.

* Based on application of a floating screed 5-6 cm thick at 23°C and 50% relative humidity, in a ventilated area.

M40 SPECIFICATION CLAUSE FOR CONTRACTS:

The cementitious screeds will be created with a premixed product, rapid drying and controlled shrinkage, easy for coating with ceramic floors after only 3 hours and wooden floors after 4 hours, classified according to EN 13813 as CT C60-F10 A1 fl, such as Celcem by Validus.





SUBSTRATE PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the tiles, screed, levelling compound, tile adhesive and grout.

Remove all dust, dirt, oil, grease, old adhesive, levelling compounds and paint residues and other contaminants that may affect adhesion. Avoid sub-bases subject to rising damp.

The supporting screed must have a minimum thickness of 20mm and a maximum of 80mm and requires the application of a binding mortar prepared by mixing Validus Celcem with Adde in equal parts by volume.

When applying Validus Celcem as thin coat of self-levelling, starting from 8 mm of thickness, the product must be laid on a wet coat of Validus Tenaci primer.

On gypsum or anhydrite sub-bases, apply two coats of Validus Para or Tenaci before application of Validus Celcem.

PRODUCT PREPARATION:

Mix Validus Celcem with 1.60 – 1.65 litres of water using an appropriate mechanical mixer, until you achieve a mixture with a consistency similar to humid soil.

It is recommended that a mixer with an approx. speed of 500-700 rpm is used. Mixing time is approximately 3-4 minutes.

The screed is now ready for use and must be used within 30 minutes.





INSTRUCTIONS FOR USE:

A polyethylene isolating sheet (or other similar material) must be laid to create a separating layer between the screed and the supporting substrate. This separating layer also provides the function of a vapour barrier, preventing damp rising from the substrate and also dehydration of the screed due to rapid absorption of water.

Validus Celcem uses the same techniques as for ordinary cement screeds, by preparing levelling strips, laying the mix, carefully compacting it and then tamping for the required surface finish.

Where it is necessary to incorporate piping or sheathing in the screed the upper layer which must not be less than 30 mm thick and should be reinforced with galvanized steel mesh of not more than 30x30 mm.

Around the perimeter of the area and around columns etc, it is advisable to form an expansion joint about one centimetre wide between the wall and the screed with a flexible material such as polyethylene, felt board, cork or polystyrene.

If the installation of the screed is interrupted away from a construction joint cut the day joint in the screed straight down and insert pieces of 3-6 mm diameter, steel rods 20-30 cm long. They should be spaced 20-30 cm apart to ensure perfect bonding and to avoid cracks and differing levels when work is resumed.

Ventilation on site is necessary. Avoid draughts during the application and curing process as well as direct sunlight.

Clean any surplus as soon as possible as screed compound will become increasingly difficult to remove. Clean tools after use with water.

Product for professional use only.





INSTRUCTIONS FOR USE:

Based on application of a floating screed 5-6 cm thick at 23°C and 50% relative humidity, in a ventilated area, the following times can be observed:

Approximately 90 minutes after laying the screed, it can accept light foot traffic.

Ceramic and porcelain coverings (residual humidity < 6%) can begin to be laid after 3 hours.

Marble and stable natural stone coverings (residual humidity < 3%) can begin to be laid after 4 hours using adhesives such as Validus Sero (standard set) or Validus Velox (rapid set).

When laying wooden floors or resilient coverings (residual humidity < 2%) it is necessary to wait at least 4 hours.

In all cases it is necessary to verify the residual humidity level in the screed using a carbide hygrometer before proceeding with the laying of floor coverings.

Measurement of the residual humidity level in Validus Celcem screed must be performed with a carbide hygrometer in several different sample areas of the screed with a reading after at least 2 minutes from breaking the vial.

Normal electrical hygrometers do not always provide reliable results in these cases. Electric hygrometers measure humidity in screeds by electric conductivity, and are therefore influenced by many different parameters.



**CLEANING:**

Tiling and tools should be cleaned with water when still fresh.
Hardened product can be cleaned by mechanical abrasion.

CONSUMPTION:

14-16 kg/m² for every 10mm of depth.

STORAGE:

The product must be stored unopened and sealed, in its original packaging in a cool, dry place.

SHELF LIFE:

Approximately 12 months from the date printed on the side of the packaging.

PACKAGING:

Validus Celcem is packed in 25kg bags.

PLEASE NOTE:

Validus Celcem complies with the requirements of Reg. (CE) N. 1907/2006 (REACH) - All. XVII, 47.

Use of the product beyond the declared shelf life may increase the risk of an allergic reaction.

If you are unsure with any of our instructions, please consult our **Technical Department on 020 8778 9000.**

The information contained in this technical data sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or possibility of variations of working conditions and of workmanship outside our control.





product technical specification

Classification EN 13813	EN 13813: CT C60 – F10 A1 fl
Consistency	Premixed Powder
Colour	Grey
Storage and Duration	12 months in the original closed package in a cool dry place
Danger of Harm	Possible irritation of the eyes and skin upon contact due to the cement content
Flammability	No
Apparent Mass Volume	1,600 kg/m ³
Mixture Ratio	1.6-1.65 litres of water per 25 kg bag
Mixing Time	3-5 minutes
Mixture Consistency	Humid soil
Mass volume of slurry	2,100 kg/m ³
Application Temperature	From + 5°C to + 35°C
Pot Life	30 minutes
Thickness	From 20mm to 80mm
Maximum Grain Size	4mm
Traversable on dry substrate	2 hours
Ceramic Tiles Lay After	After 3 hours (subject to residual humidity check <6%)
Marble and Natural Stone Lay After	After 4 hours (subject to residual humidity check <3%)
Wood and Resilient Lay After	After 4 hours (subject to residual humidity check <2%)
Final Hardening	3 days
Compression Strength after 24 hours	30 N/mm ²
Compression Strength after 7 days	40 N/mm ²
Compression Strength after 28 days	60 N/mm ²
Flexural Strength after 24 hours	6 N/mm ²
Flexural Strength after 7 days	7 N/mm ²
Flexural Strength after 28 days	10 N/mm ²
Temperature Resistance	From -30°C to +90°C
at +23°C, 50% relative humidity	



product health and safety information

CLP REGULATION (EC) NO 1272/2008:
DANGER



HAZARD STATEMENTS:

H318: Causes serious eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

PRECAUTIONARY STATEMENTS:

P261: Avoid breathing vapours.

P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison centre/doctor.

Substances that contribute to the classification:

Cement, portland, chemicals; Calcium oxide

Follow instructions in the material safety data-sheet for safe handling and use.

Technical Data Sheet Version Number: VA.CM.T01

The information contained in this technical data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.