

# TECHNICAL INFORMATION

## TOPFLOW SCREED C BELITEX

Topflow Screed C Belitex is a pump applied free flowing cement based screed suitable for most applications including underfloor heating and wet environments.

### PRODUCT DESCRIPTION

Designed to provide a smooth level surface in both commercial and domestic buildings prior to the application of floor finishes, Topflow Screed C Belitex can be unbonded or floating. It is also suitable for use with underfloor heating. For advice on specifications and for proprietary systems contact your Tarmac representative.

- Suitable for all residential and commercial floors carrying pedestrian traffic within BS8204 classification

### TOPFLOW SCREED C BELITEX BENEFITS

- It is a more conductive medium than sand cement screed and is self-curing and self-compacting
- It can be laid thinner than competing sand cement systems without detriment to its performance, so any underfloor heating pipes are closer to the surface (nominal cover to pipes 30mm)
- No need for force drying as the product is ready to receive floor coverings within 14 to 21 days dependant on environment
- It can be laid as a floating construction over most types of rigid insulation board or acoustic matting at a minimum thickness of 35mm
- It offers significant programme benefits, as areas of up to 120m<sup>2</sup> can easily be installed and finished per hour
- Its very low shrinkage values mean you require less construction joints than cement based screeds
- It can receive foot traffic 48 hours after placing and partitions can be erected seven days after placing
- It is installed by trained and competent contractors who have invested in the necessary equipment to install the product correctly
- It is non-combustible
- No need to include reinforcement

### TECHNICAL DATA

Screed C Belitex CT-C20/F4

Appearance/Colour: Dark Grey fluid mortar

Wet Density: 2,200 kg/m<sup>3</sup>

Dry Density: 1,950 kg/m<sup>3</sup>

### SPECIFICATION

Flow range = 250-270mm

Maintenance of fluidity = 2 hours

Compressive strength at 28 days = 20N/mm<sup>2</sup>

Flexural strength at 28 days = 4N/mm<sup>2</sup>

Wet Density = 2,200kg/m<sup>3</sup>

Drying shrinkage at 28 days typically <= 250µm/m

Thermal conductivity = 1.7w/mK

Fire rating (BS 476: Part 4) = non-combustible

### PRODUCT

Screed C Belitex CT-C20/F4

### MINIMUM THICKNESS

Unbonded - 35mm minimum nominal 50mm

Floating over thermal insulation -

35mm (residential)

40mm (commercial)

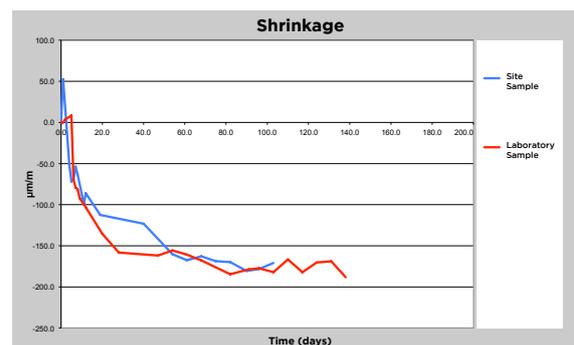
Cover to heating pipe 30mm

### MAXIMUM THICKNESS

Recommended to be no more than 100mm. Depths over this may impact on drying times.

### SHRINKAGE

Topflow Screed C Belitex is a low shrink cementitious flooring solution with shrinkage values comparable to anhydrite screeds.



### DRYING TIMES

Due to the nature of Topflow Screed C Belitex and its design make up the screed will be dry to receive floor coverings at between 14 to 21 days depending on environment and chosen floor covering. Laboratory tests show that at 20°C and 65% R/H (relative humidity) the screed will have achieved 75% R/H at 14 days. The environment in which the screed is placed may impact this figure.

### USE

#### CONSIDERATIONS IN USE

- Topflow Screed C Belitex is not suitable as a wearing surface itself, or for external areas
- The building should be weatherproof before screeding commences. Where applicable, especially on ground floors, there must be a damp-proof membrane below the screed or sub-base
- The screed should only be laid when the internal air temperature is between 5°C and 30°C
- Cannot be laid to falls

#### FOLLOWING PLACING

- No curing is required, however the floor should not be subjected to severe draughts, direct sunlight or heating for the first 48-72 hours
- The room in which the screed has been laid should therefore be sealed for a minimum of 24 to 48 hours. After this time the room should be ventilated. Windows and doors should then be closed at night and reopened during the day to allow further ventilation to aid drying

### DRYING

- The ambient conditions must be suitable for the drying of the screed with low air humidity (preferably 60% RH or less) and good ventilation
- Before floor finishes are laid, the moisture content of the screed should be ascertained to be at or below the required level (75% RH)
- At 14 days place a rubber mat/polythene sheet on the screed, this should be lifted and moved daily until there are no signs of darkening underneath the cover. This will indicate the floor is dry.  
or
- At 14 Days place a digital hygrometer on the floor and leave for 24 hours, the reading should be at 75% RH, at this point the floor is ready to take ceramic floor coverings.
- Drying time at 20°C 60% RH: Up to 50mm thickness = 14 to 21 days dependant on floor coverings
- Topflow Screed C Belitex will require no sanding to remove laitance but it is recommended to lightly abrade to clean and remove building residue from the floor prior to application of floor covering if needed

### FLOOR FLATNESS

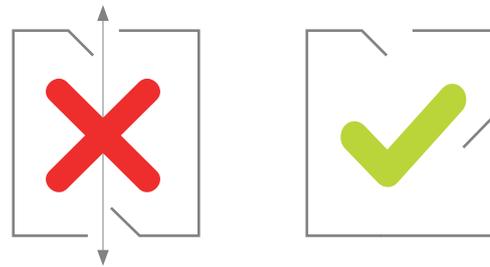
Easily achieves SR2 under BS8204

### JOINTING

Area of up to 250m<sup>2</sup> can be laid without joints

### ENVIRONMENT

- Topflow Screed C Belitex should be laid in a weather tight environment, protected from wind and rain, at internal temperatures of between 5 to 30°C. Once placed the area should be sealed for 24 to 48 hours dependant on external temperature. After this time the area should be ventilated by opening doors and windows to assist in drying, these should be closed at night and re-opened the following morning until the floor reaches the required relative humidity



- During drying doors or windows opened to vent the buildings, should be off set to avoid wind tunnelling effect.

### FLOOR COVERINGS

Topflow Screed C Belitex is compatible with all floor coverings, and also compatible with all cementitious adhesives and floor levellers. Ask your local representative for further information on compatibility testing or see our post installation guidelines.

### HEALTH AND SAFETY

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health and Safety data sheets, available from Tarmac on request and provided with each delivery

**CHRYSO** **TOPFLOW**  
SCREED C BELITEX

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