TARMAC

Technical data sheet

*TOP*FLOW Screed C Cure TS

*TOP*FLOW Screed C Cure TS is a free-flowing, pump applied, cement-based screed suitable for applications that require thin depths.

*TOP*FLOW Screed C Cure TS contains an integral curing agent that controls drying and eliminates the need for surface-sprayed curing.

PRODUCT DESCRIPTION

Designed to provide a smooth level surface in both commercial and domestic buildings prior to the application of floor finishes. *TOP*FLOW Screed C Cure TS can be used in unbonded or floating applications. It is also suitable for use with low profile underfloor heating systems. It is suitable for all residential and commercial floors carrying pedestrian traffic within BS8204 classification. For advice on specifications and for proprietary systems contact your Tarmac representative.

*TOP*FLOW Screed C Cure TS BENEFITS

- Thinner sections down to 12mm bonded/20mm unbonded for domestic applications, and 30mm for commercial applications
- Self-compacting formulation achieves a smooth, level surface with reduced finishing requirements. Can easily achieve a minimum of SR2 surface regularity
- Improved thermal conductivity when compared to traditional sand-cement screed for faster heat up times in underfloor heating
- Reduced drying times providing fast completion, earlier covering and flexibility within the build program
- Can receive foot traffic 24-48 hours after placing and partitions can be erected seven days after placing
- Offers significant programme benefits, as areas of up to 120m^2 can easily be installed and finished per hour
- Extremely cost effective compared to bagged self-levelling screed compounds
- Minimal surface laitance after curing period
- It is non-combustible – Category A1 in accordance with EN 13501-1:2007-A1:2009
- No need to include reinforcement
- Can be installed into wet areas e.g. shower rooms, wet rooms

TECHNICAL DATA

Screed C Cure TS	C30/F6
Appearance/colour:	Wet/Grey fluid
density:	2,100 -2,200kg/m^3
Dry density:	>1850kg/m^3

SPECIFICATION

Flow range	300mm ± 20
Maintenance of fluidity	2 hours
Compressive strength at 28 days	C30
Flexural strength at 28 days	F6
Wet density	2,100–2,200kg/m^3
Surface Regularity	Min. SR2
Fire rating (BS 476: Part 4)	Non-combustible

bsi. Screed Material KITEMARK™
KM 613473

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MINIMUM THICKNESS

Bonded	12mm
Unbonded	20mm(domestic) 30mm(commercial)
Floating over thermal insulation	35mm(residential) 40mm(commercial)
Cover to heating pipe	12mm*

* Please confirm minimum depth with manufacturer of the heating system

MAXIMUM THICKNESS

Recommended to be no more than 40mm. Depths over this may impact on drying times

SHRINKAGE

***TOP**FLOW* Screed C Cure TS is a low shrink, cementitious flooring solution

DRYING TIMES

***TOP**FLOW* Screed C Cure TS can receive floor coverings at between 21-28 days depending on environment, screed depth (depths over 40mm may take longer to dry) and chosen floor covering.

Typically, at 20°C and 60% RH (relative humidity) the screed will have achieved 75% RH at 21-28 days. The environment in which the screed is placed may impact this figure.

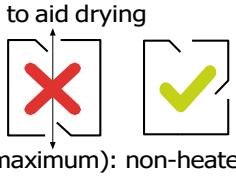
USE

Considerations in use

- ***TOP**FLOW* Screed C Cure TS is not suitable as a wearing surface itself, or for external areas
- ***TOP**FLOW* Screed C Cure TS should be installed on an appropriate structural substrate and, if bonded, suitable preparation of the substrate is required
- The building should be weatherproof before screeding commences
- The screed should only be laid when the internal air temperature is between 5°C and 30°C. It cannot be laid to falls

Following placing

- The floor should not be subjected to severe draughts, direct sunlight or heating for the first 24-48 hours
- The room in which the screed has been laid should therefore be sealed for a minimum of 24-48 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



- Jointing (maximum): non-heated floors 150m^2. Heated floors 100m^2. Both dependant on length to width aspect ratio

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 measured to be at or below the required level (75% RH)
- At 21-28 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 floor coverings. The type of floor coverings to be used may impact on this time frame, manufacturers guidance needs to be followed
- Drying time at 20°C 60% RH: Up to 40mm thickness 21-28 days dependant on ambient conditions
- ***TOP**FLOW* Screed C Cure TS should not require sanding to remove laitance. However, it is recommended to lightly abrade the surface in preparation for the installation of floor coverings (refer to manufacturer's 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.

For more details contact:
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