

Cemflow TS350

Trowel applied cementitious screed



Description

Cemflow TS350 is a pre-bagged trowel-applied cementitious screed for use as a levelling mortar and heavy-duty base underlayment. The product consists of well-graded sand particles, a blend of cement, additive and fibres to ensure ease of use and produce consistent quality screed.

Applications

Cemflow TS350 is formulated for use as a basic screed and trowel applied levelling mortar for applications such as:

- ▲ Floor levelling before tiling works.
- ▲ Repair of breakage caused by mechanical and electrical fittings installations or maintenance.
- ▲ Repair of damaged plaster.
- ▲ Topping overheated flooring conduits.
- ▲ Can be installed over hardwood, metal surfaces as a base layer.

Advantages

- ▲ Pre-mixed and only requires the addition of water.
- ▲ Elimination of manual labour quality problems resulting from onsite screed proportioning.
- ▲ Saves storage space of screed mixing raw materials (sand, cement).
- ▲ Reducing dust and material loss resulting from open storage of screed raw materials.
- ▲ Cost-effective, easy to apply.
- ▲ Smooth finish.

Standards

Cemflow TS350 complies with EN 13813, Class CT-C50-F7.

Technical Properties @ 25°C:

Colour:	Grey
Compressive strength: EN 13892-2	≥ 40 MPa @ 7 days ≥ 50 Mpa @ 28 days
Flexural strength: EN 13892-2	≥ 8 MPa @ 28 days
Fresh wet density:	2.3 ± 0.1 g/cm ³
Working time:	30 min @ 25°C
Application thickness:	10 - 50 mm
Setting time:	Initial 1 - 3 hr @ 25°C Final 14 - 17 hr @ 25°C
Drying shrinkage: ASTM C490	≤ 500 microns @ 28 days

Typical properties at 2.25 litre/25 kg bag.

Method of Use

Substrate Preparation

Concrete substrates should be fully cured and achieve a minimum compressive strength of 25 N/mm² and a minimum pull-off strength of 1.5 N/mm². The concrete substrate should be below 75% RH and have less than 4% moisture content.

Alternatively, Strongcoat DPM should be applied according to the priming section.

Surface Preparation

Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces. Surfaces should be sound and with no irregularities as they can affect the finish of the applied product.

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Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Acid etching can be used after consulting with DCP's Technical Department.

Surface defects such as voids and blowholes should be repaired before application. Consult DCP's Technical Department for the best repair material.

Surfaces must be free of any dust or loose particles before product application. Use suitable methods like vacuuming or sweeping. If possible, apply the product on a small test area before the actual application to check for any problems with the surface preparation.

Priming

It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down to minimize pinholing. Ensure that the surface is in a saturated surface dry condition i.e. no visible surface water before application of Cemflow TS350.

For surfaces with RH between 75% and 85%, without the need to dampen the surface, prime with one coat of Strongcoat DPM and allow to dry before application of Strongcoat Primer. For surfaces with RH greater than 86%, without the need to dampen the surface, prime with two coats of Strongcoat DPM and allow the second coat to dry before the application of Strongcoat Primer.

After Strongcoat DPM has been applied and left to cure, apply Strongcoat Primer and whilst it is still tacky fully blind with Antislip Aggregate #2 at approximately 3 kg per m², until the surface is covered and no resin spots remain. Allow to dry fully overnight and remove excess aggregate before applying Cemflow TS350.

Mixing

Mix the contents of the bag with 4.0 - 5.0 litre for 50 kg bag and 2.0 - 2.5 litre for 25 kg bag of fresh clean water using a drum or free-fall mixer for 3 - 5 minutes before spreading.

Application

The mixed mortar shall be spread evenly by trowel and tamped well in place with a wooden float at a thickness of 10 - 50 mm in a single application. Greater thickness can be achieved by the application of multiple layers.

Cemflow TS350 shall be finished with a steel trowel to achieve the required smoothness and to fully close the surface.

Curing

Since Cemflow TS350 is a cementitious based material, it is recommended that freshly hardened surfaces are cured with damp hessian or to be covered with polyethylene sheets, especially in harsh climatic conditions like direct sunlight, the flow of wind, elevated temperatures, etc.

Cleaning

All tools should be cleaned immediately after finishing by water.

Packaging

Cemflow TS350 is available in 25 and 50 kg bags.

Coverage

1.20 m² per 25 kg bag @ 10 mm thickness.
2.40 m² per 50 kg bag @ 10 mm thickness.

Storage

Store under a dry shaded area on a flat, clean and sound surface, preferably wooden, plastic pallets or similar.

Shelf Life

Cemflow TS350 has a shelf life of 12 months from date of manufacture if stored in original unopened bags.

If these conditions are exceeded, contact DCP Technical Department for advice.

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Cautions

Health and Safety

Wear suitable protective clothing, gloves and eye/face protection. Should accidental skin contact occur, remove immediately with clean water.

For further information, refer to the Material Safety Data Sheet.

Fire

Cemflow TS350 is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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Note:

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