

ISOETHIN

Description

A thin cementitious floor levelling screed incorporating a polymer emulsion.

Uses

Isoethin is designed to level out irregularities in structural concrete where the screed thickness required is between a surface dressing and normal screed, 3mm to 20mm.

Can be laid on certain other suitable bases using Isocrete M-Bond.

Benefits

- ✓ Laid from 20mm thick down to 3mm thick at localised high spots on the concrete.
- ✓ Can be laid thicker if a more coarse sand is used.
- ✓ Provides a saving on dead load on the structural floor.
- ✓ Suitable to receive all modern floor finishes.
- ✓ Can be bonded to Isocrete M-Bond Extra to provide a thin screed combined with a d.p.m.

Composition

Portland Cement to BS 12, Class 42.5.

Normally, a clean 2.36mm down sharp sand with a suitable smooth grading, or for thicker screeds, a BS 882 sand, grade M, with not more than 10% passing 150 micron sieve. Isocrete Polymer 70.

Clean water.

Thickness

Isoethin is designed to be laid to thicknesses of 20mm down to minimum 3mm. For screeds in excess of 20mm, use a more coarse sand or refer to the data sheet for Isocrete K Screed.

Due allowance should be made for the structural tolerance on the base concrete when determining the average thickness of Isoethin screed required.

SPECIFICATION

Surface preparation

It is essential the base concrete is scabbled or shot blasted and also vacuum cleaned to remove all loose material and dust.

Care must be taken to ensure no traffic carries dirt onto the slab after it has been cleaned.

The base concrete must be primed with diluted Isocrete Polymer 70 the day before the screed is to be laid, unless M-Bond or M-Bond Extra are being used in conjunction with Isoethin, when reference should be made to the separate data sheet.

Bay Size

Lay in large areas, generally without forming bays. Wherever practical, construction joints in the base concrete should be continued as day joints in the screed.

Application

Damp Proof Membrane

Where a damp proof membrane is required, it should either be installed below the concrete slab or a two coat Isocrete M-Bond Extra epoxy resin damp proof membrane/bonder should be specified between the concrete and the Isoethin screed.

Waterproof concrete

When an integral waterproofer has been incorporated in the concrete base, Isoethin can be used providing it is bonded to the concrete with a single coat Isocrete M-Bond epoxy resin.

Other Surfaces

Isoethin may also be bonded to other suitable hard, rigid surfaces with M-Bond - but such proposals should be referred to the Technical Department of Isocrete Floor Screeds Limited.

Protection

If excessive wear is likely to occur, protection of the screed is necessary and the cost should be provided for in the Bill of Quantities.

Performance

Weight

Density is approx. 1900 kg/m³.

Curing

All screeds should be cured for 5 days to prevent over-rapid drying taking place after laying.

Average Hardening Times

3 to 4 days for light foot traffic.

Average Drying Times

For laying floor finishes, approx. 7 days.

Excessive moisture in the structure, low temperatures or high air humidity will delay the drying. High temperatures could cause over-rapid drying which can result in cracking, and should be avoided. The drying and hardening times shown above apply from completion of screed curing operation.

The flooring contractor must check the moisture content of the screed before commencing to lay the floor finish.

Compatibility

Isothin is compatible with all normal building materials. After hardening it will remain inert and unaffected by the presence of water.

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Model Specifications for Isocrete Isothin

- 1. Isothin on normal concrete**
Isocrete Isothin screed to be supplied and laid on a shot blasted (or scabbled) and vacuum cleaned concrete base, bonded with Isocrete Polymer 70 primer and grout, in accordance with the instructions of Isocrete Commercial Flooring Limited by one of their appointed Licencees.
- 2. Isothin and damp proof membrane.**
Isocrete Isothin screed to be supplied and laid bonded with Isocrete M-Bond Extra to clean smooth shotblasted concrete, providing a damp proof membrane, in accordance with the instructions of Isocrete Commercial Flooring Limited by one of their appointed Licencees.
- 3. Isothin bonded to waterproof concrete and other surfaces**
Isocrete Isothin screed to be supplied and laid bonded with Isocrete M-Bond, to in accordance with the instructions of Isocrete Commercial Flooring Limited by one of their appointed Licencees.

Health & Safety

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from Isocrete on request.

Further information

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine total requirements.

Isocrete have a wealth of technical & practical experience built up over many years in our pursuit of excellence in flooring and concrete technology. Clients are welcome to call our Technical Desk or visit our Technology Centre in Sandbach.

Important Note

Isocrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms & Conditions of Sale, copies of which may be obtained on request. Whilst Isocrete endeavours to ensure that any advice, recommendation, specification or information is accurate and correct, it cannot - because it has no direct or continuous control over where or how its products are applied - accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendations or information given by it.

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