

Isocrete Isogran



Description

A modified granolithic wearing screed incorporating Isocrete Polymer 70 to provide a tough, hardwearing heavy duty floor.

Uses

Isocrete Isogran provides a strong wear resistant, heavy duty flooring suitable for store rooms, workshops, plant rooms, service areas in offices, hospitals, laundries, etc. It can be used as a base for resin finishes.

Can be laid bonded to suitably prepared in-situ concrete floors. Isocrete Isogran is not recommended for use on pre-cast concrete plank or beam and block construction.

Can be used for treads and risers on staircases.

Can be used to form covered skirtings against concrete or sound block and brickwork.

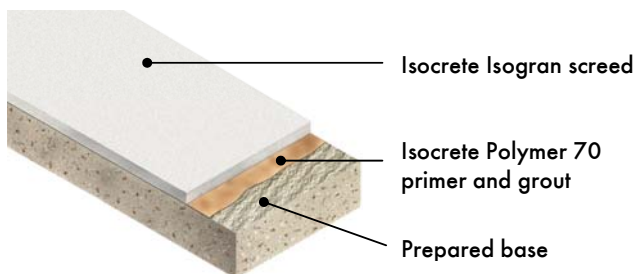
Benefits

- Strong, heavy duty wearing screed
- Resistant to impact damage and surface wear
- Resistant to oil, petrol and grease
- Maintenance free apart from normal sweeping and washing

Project References

Jubilee Line underground stations; Deeside Power Station; Burtons Biscuits

Typical Cross Section



Model Specifications

Product: Isocrete Isogran
Preparatory work and application in accordance with manufacturer's instructions.
Manufacturer: Flowcrete UK Ltd
Telephone: Customer Service - +44 (0)1270 753000

_____ mm Isocrete Isogran wearing screed to be supplied and laid on a shot blasted or scabbled and vacuum cleaned in situ concrete floor primed and bonded with Isocrete Polymer 70 primer and grout in accordance with the manufacturer's instructions.

Installation Service

The installation should be carried out by a Flowcrete approved contractor with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site www.flowcrete.com

Products included in this system

Primer: Isocrete Polymer 70 primer @ ~0.05 kg/m²
Grout: Isocrete Polymer 70 grout @ ~0.05 kg/m² of polymer
Or, primer: M-Bond (Red) @ ~0.45 kg/m²
Or, combined primer and dpm: Isocrete M-Bond Extra
1st coat M-Bond Extra (Red) @ ~0.45 kg/m²
2nd coat M-Bond Extra (Black) @ ~0.35 kg/m²
Screed: Isocrete Isogran @ 44 kg/m² (20 mm)

Curing: polythene sheet

Detailed application instructions are available upon request.

Thicknesses

Single layer, bonded 20 - 50 mm
Two layers, bonded 50 - 80 mm
(First layer to be semi dry, immediately followed by a 30 mm layer of finishing grade material laid monolithic with the base)

Staircase treads, bonded 25 mm min.
Staircase risers, bonded 20 - 30 mm

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. Where a dpm is required, it should be installed below the concrete slab or use M-Bond Extra combined dpm and bonding agent directly beneath the Isocrete Isogran wearing screed.

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

In the case of new construction, it is essential that the base concrete has been laid for a minimum of 3 weeks.

Bay Sizes

Isocrete Isogran is always laid in bays, not exceeding 15m² and of maximum length 5 metres.

System Performance Guide

The table below shows how well the system complies with different characteristics.

A scale of 1 - 5 where 5 is the best value.

5 Excellent, 4 Very Good, 3 Good (Pass), 2 Fair, 1 Poor

Fire Safety	5	Shrinkage	4
Compressive Strength	5	Drying Time	3
Impact Resistance	5	Wear Resistance	5
Thermal Resistance	3	Foot Traffic	5

Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20 °C and at 50% Relative Humidity.

Density (approx.)	2,150 - 2,250 kg/m ³
Compressive Strength (28 days) (BS EN 196)	>55 N/mm ²

Speed of Cure

	10 °C	20 °C
Working time	2 - 3hrs	2 hrs
Light foot traffic	4 days	3 - 4 days
Limited site traffic	14 days	10 - 14 days
Full traffic	14 days	10 - 14 days
Curing under polythene	5 days	5 days

Note: Low temperatures will slow the rate of hardening. High temperatures may lead to rapid drying and extra curing may be required.

Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Focus on the Floorzone

Flowcrete Group plc are world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, corrosion resistant systems... to name just a few. Our objective is to satisfy your Floorzone needs.

Further Information

To ensure you are specifying a fit for purpose flooring system for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

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