

ISOTEC FLOOR100[®]

ISOTEC

High Performance Solvent Free Floor Coating

FEATURES

ISOTEC FLOOR100[®] is a high performance, high build, solvent free epoxy floor coating that is also decorative and suitable for use in a wide range of applications. It can also be used as a wall coating.

Advantages

- High abrasion resistance.
- Resistant to wide range of chemicals.
- Long pot life.
- Available in wide range of colors.
- Can be used without primer (self-priming).
- Smooth and anti-slip finish available.
- Easy to clean and maintain.

Areas of Application

- Car park decks.
- Process areas.
- Pharmaceutical, food and beverage plants.
- Storage areas.

TECHNICAL DATA

Compressive strength (BS6319)	70MPa
Flexural strength (BS6319)	35MPa
Abrasion resistance (ASTM 4060, CS17 wheel)	50 mg loss/1000
Impact resistance (ASTM D2794)	No cracking
Bond to concrete (BS 1881)	>2MPa
Dry film thickness	200 to 400 microns
Pot life	45 minutes at 30C (86F)
Recoat time	6 to 18 hours at 30C (86F)
Full cure	7 days at 30C (86F)

Coverage

3 to 5 m² per kg (per coat. Wet film thickness of 150 to 200 microns/m²).

ISOTEC primer : 8 -6 m² per kg.

ISOTEC FLOOR100[®] diluted %10 solvent as a self priming with consumption 200 gm/m².

The primer should be left to achieve a tack-free condition before applying the top coats . A second layer of primer may be required if the substrate is excessively porous .

Actual coverage will depend on wastage and surface profile and can be up to %20 or more higher than theoretical coverage.

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Surface Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes should be filled with ISOTEC Putty. The moisture content of the concrete should be less than %5. The concrete slab on which the coating is to be applied should have a waterproofing system installed.

Important Considerations

- Cementitious substrate must be at least 3 weeks old.
- Maximum moisture content of substrate < 4%.
- Maximum relative humidity 75%.

Mixing

Mix **ISOTEC FLOOR100[®]** using the following technique :
Add the hardener 'Part B' to the base 'Part A' and mix using a slow speed drill. Paddle for 3 minutes until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

Application

Apply in two coats of 100 to 200 microns per coat wet film thickness using brush, roller or airless spray. Recoat after 6 to 18 hours at 30C. Clean equipment using Solvent.

A slip resistant finish can be achieved by broadcasting ISOTEC Grains onto the surface of the first coat while still wet. The grain size (Fine or Coarse) and broadcast rate will depend on the surface texture required but will generally be in the range of 0.5 to 1kg/m2.

Packaging

ISOTEC FLOOR100[®] is available in 5 kg and 20 kg packs.

STORAGE

Stock in dry, ventilated, moisture-proof, sunlight-proof place.

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Shelf Life

12 months when stored below 35C under shade in a dry area.

HEALTH & SAFETY

ISOTEC FLOOR100[®] is not considered dangerous to handle. Please refer to the material safety data sheet for additional information.

Legal Notes

The information provided in this data sheet, are given in good faith based on our current knowledge and experience of the product when properly stored, and applied by professional applicator, and under normal conditions in accordance with the mentioned recommendations. In practice under actual site condition differences are such that no warranty can be issued nor any liability can be taken, arising out of any legal relationship whatsoever. The product must be tested onsite to check its suitability for the intended application and purpose



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