

# ISO FLEX 1060

## Product Data Sheet

### Description:

Iso flex is a two part acrylic modified cementitious coating, mixed at site for easy application. Iso flex cures to form a tough flexible coating with excellent waterproofing properties.

### Uses:

- Pile head waterproofing.
- Water proofing of potable water reservoirs, both interior and exterior.
- To provide protection for concrete against carbonation and chloride attack.
- Water proof coating for roofs, concrete water tanks, lift pit, swimming pools, spillways, bathrooms, kitchens and other wet areas.
- Waterproofing lining for water retaining structures.
- As a backing to tiles, mosaic and marble to prevent water absorption.
- General construction waterproofing.
- As a protective coating for foundations.

### Advantages:

- Excellent performance and flexible in nature.
- Good adhesion to most surfaces.
- Non toxic, therefore suitable for potable water.
- Resistant to carbon dioxide and chloride ion diffusion.
- (forms a film that provides an anti carbonation coating over concrete.
- Can resist up to 5 bar of pressure.
- Unlike conventional coating which require 7-28 days cure of concrete, iso flex can be applied to 24 hours old concrete, there by giving immediate protection to the concrete.
- Allows the substrate to breath.

### Coverage:

1.8 kg/m<sup>2</sup> per coat for 1 mm dry film thickness.



### Technical Properties:

Color :	Grey / white (other colors on request).
Density (mixed) :	1.7 g/cc.
Pot life, 30 C :	45 minutes.
Tensile strength ASTM D 412-92 :	>1.5 N/mm <sup>2</sup> .
Elongation at break ASTM D 4-1292 :	>5%.
Adhesion to concrete ASTM D 4541:	1.5 N/mm <sup>2</sup> .
Crack bridging ASTM C 836: 95 :	Up to 0.5m crack width.
Positive water pressure resis- tance DIN 1048	5 bar (50 m head of water).
Negative water pressure resis- tance BS EN 12390 part 8: 2000	3 bar (30 m head of water).
Water absorption:	<1 %
Suitability for use withpotable water tank BS 6920 part: 11990	Confirms

Chemical resistance :	0.5 % Na cl
	1 % NH4 OH
	3.5 % Hcl
Abrasion resistance (taber abramer) :	70.5 mg./1000 cycles
Drying time	2-3 hours
Application temperature :	+5 C to+ 45 C
Service temperature	-5 C to+ 80 C

### Application procedures:

#### Surface preparation

The surface must be sound and free of oil, grease, dust and other unwanted residual material which will affect the bonding. The surface to be treated should be pre-saturated with water prior to application but remove any standing water prior to application.

#### Mixing

Iso flex is supplied in two parts, and pre measured. On site mixing is needed. Pour the liquid into a suitable sized container and slowly add the powder to the liquid and mix using a slow speed drill (300-400rpm) fitted with a suitable paddle until a lump free creamy consistency is obtained. Do not mix more material than that can be used within 45 minutes. Never add water to loosen the material at any stage.

#### Application

Apply the first coat using sufficient material at a rate of 1 kg/m<sup>2</sup> to completely cover the holes, cracks etc. A soft bristled brush or roller can be employed for this. Once the first coat is dry, apply a second coat in order to achieve the required thickness at an average rate of 0.75-1 kg/m<sup>2</sup> per coat. Glass cloth reinforcement can be placed into the first coat when still wet and prior to the second coat application for a reinforced system.

### Cleaning:

Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be removed mechanically.

### Packing:

Iso flex is available in 20 kg kits. Contains 2 parts.  
Part A - 15 kg powder  
Part B - 5 kg liquid  
Color : grey and white , other color in order .

### Storage:

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in air-conditioned environment.

### Shelf life:

Store under cover, out of direct sunlight and protect from extreme temperatures. Shelf life is up to 12 month when stored as per recommendations .

### Health and Safety:

As with all construction chemical product, caution should be always exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally allowed, do not induce vomiting, but call for medical assistance immediately.

*Prior to each use of any product of ISOBIT, its subsidiaries or affiliates ("ISOBIT"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Datasheet which are available at [www.isobitiraq.com](http://www.isobitiraq.com) or by calling ISOBIT's Technical Service Department at +9647501136936. Nothing contained in any ISOBIT literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each ISOBIT product as set forth in the current product label, Product Data Sheet prior to use of the ISOBIT product. ISOBIT warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL***

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