

## About this product

Mulsifix Brushcoat is two components polymer modified flexible cementitious waterproof coating for brush, spray or roller application. It consists of specially selected cement, graded aggregates and additives supplies in powder form together with a liquid component of special synthetic resin dispersion. It is formulated as a protective, water resistant, cosmetic coating to cover non-structural surface defects in new and old concrete.

## Uses

Mulsifix Brushcoat can be used for external and internal waterproofing, repair work and protection from the elements on the following structures:

- Water tanks.
- Bridges and bridge decks.
- Sea walls.
- Balconies and planter boxes.
- Basements.
- Retaining walls.
- Rainwater gutters.
- Bathrooms and kitchens.

## Features and benefits

- Factory pre-blended products to eliminate on site errors.
- Excellent adhesion.
- Easy to apply.
- Flexible.
- Overbridging hairline cracks.
- Resistant to water penetration.
- High resistance to carbon dioxide.
- Non toxic.
- Can be tiled or screeded over.

## Typical properties

All tests carried out at 20 °C

Mixed density	1850 kg/mm <sup>3</sup>
Bond to repair mortars (7d)	1.75 N/mm <sup>2</sup>
Compressive strength	3 days 12 N/mm <sup>2</sup>
	7 days 18 N/mm <sup>2</sup>
	28 days 25 N/mm <sup>2</sup>
Flexural strength	7 days 7.0 N/mm <sup>2</sup>
	28 days 10 N/mm <sup>2</sup>
	28 days 10 N/mm <sup>2</sup>
Tensile strength	7 days 2.5 N/mm <sup>2</sup>
	28 days 3.7 N/mm <sup>2</sup>
Elongation	30%
Water pressure resistance (positive)	>5 bar (no leakage in 24 hours)
ISAT (BS1881)	No water penetration
Water absorption (BS368)	(control concrete 0.26m <sup>3</sup> /m <sup>2</sup> sec)
	0.2%
	(control concrete 3.03%)
Coefficient of linear thermal expansion	18 x 10 <sup>-6</sup> /°C
Pot life	½ to 1 hours (varies with temperature)

## Application

### Preparation

Concrete substrates must be adequately prepared either by scabbling, needle gunning or other appropriate means.

Old concrete surfaces contaminated with oil or grease require suitable preparation such as steam cleaning in conjunction with a suitable detergent. Care must be taken to ensure that the oil or grease is removed from the surface and not simply spread over a large area. New concrete should be cured for at least 14 days using an approved curing technique e.g. polythene film. Spray-on curing membranes are unsuitable.

Prior to the application of Mulsifix Brushcoat, the concrete should be thoroughly wetted but all surface water must be removed.

### Mixing

Mulsifix Brushcoat must be mixed in a forced action mixer, or by slow speed (max. 500 rpm) drill with suitable mixing paddle.

Pour about 2/3 of the liquid Component 'B' into the mixer. Slowly add all the powder component 'A' to the liquid and mix to a smooth paste free from lumps of undispersed powder. Dilute to a brushable consistency using the remaining liquid. Less liquid may be used if a stiffer mix is required. Do not add extra water.

### Application

While the substrate is damp, apply Mulsifix Brushcoat to the surface with a brush, roller or spray. Do not over spread, or apply too thickly. Two coats are normally required. Apply the second coat at right angles to the first coat to ensure a pinhole-free coating. The second coat should be applied after about 6 to 12 hours but not later than 24 hours (at 20°C).

A trowel may be used for applying stiffer mixes to more uneven substrates. Tools and equipment must be cleaned with water before the product dries. Brushes which become clogged may be cleaned by soaking in very hot water with little detergent.

Do not apply when raining or when rain is expected before the

## Packaging and coverage

Mulsifix Brushcoat is supplied in 20kg multi-wall kraft bag with one ply of polythene lining component 'A' and one plastic container contain approximately 5kg of polymer emulsion Component 'B', sufficient to cover 25 to 35 m<sup>2</sup> per coat depending on surface condition. Normally two coats are sufficient.

## Precautions

Do not add water or more liquid than has been provided in the package.

Do not place when substrate temperature is below 4°C or when ambient temperature is below 4°C on a falling thermometer.

When fully cured, Mulsifix Brushcoat is stable to freeze/thaw conditions but should not be applied when conditions are not suitable in accordance with good concreting practice.

## Shelf life and storage

Store in cool, clean, dry conditions. Do not store above 40°C. Shelf life in undamaged or unopened bags in correct storage conditions is at least 9 months. Do not allow liquid to freeze.

## Health and safety

The product contains cement which is alkaline and may cause skin irritation, we therefore recommend the use of protective clothing and gloves. Mixing should be carried out in well ventilated conditions and breathing of dust must be avoided. Any powder or liquid contacting the skin should be washed off as soon as possible and any contamination of the eyes should be treated by irrigating with copious amounts of clean water. If irritation persists, obtain immediate medical advice. For further information, please refer to Material Safe Handling Guide.

## Quality assurance

The product is factory produced and quality controlled and when used as described will perform satisfactorily. We cannot be responsible for other materials, misuse of the product or poor workmanship. We have the right in any dispute arising to have the product tested by an accepted method.

## Technical Service

We can provide technical service at the specification stage and/or during application through our Technical Department or Laboratory. Detail specification or further information can be provided for specific projects or more general works. Site visits and on-site demonstrations can be arranged on request.



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To the best of our knowledge and belief, the information contained in this leaflet is true and accurate, but as conditions of use and any labour involved are beyond our control, the end user must satisfy himself by prior testing that the product is suitable for his specific application, and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Test results shown reflect typical figures based on laboratory testing under

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