



# TECHNICAL DATA

## Easifloor Binder

### *Easifloor II*

#### Description

The **Easifloor Binder system** is a trowel applied epoxy composite for application to concrete, steel and other subfloors where a chemically resistant, skid resistant and hard wearing surface is required. Please check with ITW Polymers & Fluids Technical Department for preparation of other surfaces not specified.

This Epirez flooring system offers good chemical resistance to a variety of reagents and is acceptable for steel wheeled vehicular traffic. **Easifloor Binder system** solves the problem of bricks and tiles failing in floors from thermal and physical stress as well as those situations where concrete is destroyed by chemical and physical attack.

**Easifloor Binder** is supplied as a 2 part kit comprising Compound and Hardener, to complete the system requires addition of **Epoxy Mortar Aggregate Extender (QA3)** and **Colourpack** (as selected).

#### Areas of Application

- Food industries
- Abattoirs
- Plating shops
- Textile industries
- Chemical industries
- Bottling lines
- Bleaching areas
- Loading ramps
- Battery manufacturers
- Dairy industries
- Sugar refining industry
- Paper manufacturers
- Pharmaceutical industries
- Waste water treatment
- Chemical containment
- Laundries

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The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

## Features

- Excellent Adhesion - adheres well to concrete with primer
- High Build - ability to restore damaged surface
- Anti Skid Finish - provides a safe, non-slip surface
- Impact Resistant - can withstand mechanical abuse
- Abrasion Resistant - can withstand steel wheeled vehicular traffic
- Bonds To Damp Surface - surface does not need to be completely dry
- Fast Curing - can withstand foot traffic within 24 hours
- Wide Colour Range - available in many colours

## General Properties

Solids Content	:	100%
Mixing Proportions	:	1 volume Hardener + 3 volumes Compound + 16 volumes <b>Epoxy Mortar Aggregate Extender (QA3)</b>
Application Temperatures	:	5°C - 30°C
Work Time	:	45 minutes at 25°C
Cure Time	:	24 hours at 25°C
Full Chemical Resistance	:	7 days at 25°C
Weatherability	:	Excellent
Abrasion Resistance	:	Excellent (withstands steel wheels)
Chemical Resistance	:	Excellent (suitable for most dilute acids and alkalis)
Flexural Strength	:	> 20 MPa
Compressive Strength	:	65 MPa
Tensile Strength	:	> 10 MPa
Tensile Bond Strength	:	2.7 MPa (concrete failure)
Water Permeability	:	$1.2 \times 10^{-16}$ m/s
Resistance to Chlorides	:	Excellent
Colours	:	Full range available

## Estimating Data

4 litre Easifloor Binder + 16 litre Epoxy Mortar Aggregate Extender = 4 m<sup>2</sup> at 4 mm thick.

## Application Directions

### Sub floor Preparation

Concrete should be at least 28 days old. Ensure surface is clean, dry and free of additives, curing agents, oils, etc. Prepare these subfloors by acid etching and washing or captive blast cleaning as applicable to expose firmly adhered aggregate. Allow to dry if wet.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended to perform an on-the-spot adhesion test as a Quality Assurance audit if doubt exists over the process.

### Priming

Prime concrete surfaces using **Epoxy Primer/Sealer (123)** at a coverage rate of 7.5m<sup>2</sup>/litre using spray or roller. Primer should be "touch-dry" before proceeding. **Easifloor Binder system** should be applied within 24 hours of priming. If this time is exceeded the subfloor must be reprimed. Keep primed surfaces clean.

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## Application

Prior to mixing, the subfloor area should be reviewed so that a fixed volume of mixed material can be applied over a fixed area to ensure correct application rate. Use a slow speed (400 rpm) mechanical mixer to ensure thorough mixing. Add contents of **Colourpack** to complete **Easifloor Binder** Compound. When properly dispersed, add complete **Easifloor Binder** Hardener - mix until uniform.

Transfer contents to a suitable mixing pail and add complete **Epoxy Mortar Aggregate Extender (QA3)** slowly, while mixing, until a uniform consistency is obtained. Pour out the mixed composite onto the known subfloor area and apply by trowel. Wipe the trowel occasionally, but sparingly with **Epirez Epoxy Thinner** to assist final trowelling.

If a higher level of skid resistance is required, **Epoxy Mortar Aggregate Extender (QA3)** should be lightly broadcast onto the fresh surface immediately after trowelling. Top coating with mixed **Easifloor Binder** or **Supatuff Heavy Duty Epoxy Coating** is always recommended for increased durability of non-skid surfaces.

## Cleaning

Tools and equipment may be cleaned before hardening commences by washing in **Epirez Clean Up Solvent**. Do not use for cleaning hands or mixing with product.

## Maintenance

To maintain a good appearance and ensure a long serviceable life for Epirez Floors, it is important that good housekeeping procedures are always maintained.

Cleaning can be done with a mop, brush or auto scrubbing machine. Use a low residue detergent that is neutral in pH.

**Note:** It is important that manufacturer's instructions on dilutions of cleaning solutions are followed.

## Limitations

Easifloor Binder II should not be applied at temperatures below 5°C

Easifloor Binder II should not be applied to surfaces known to suffer from rising damp.

## Storage and Shelf Life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers the minimum shelf life is 2 years.

## Packaging

**Easifloor Binder** is available in 4 and 20 litre packs. Each pack contains Hardener and Compound in correct proportions for use. **Epoxy Mortar Aggregate Extender** and selected **Colourpack** must be added.

## Ordering Information:

<b>EASIFLOOR BINDER II</b> 4 litre	#991150
<b>EASIFLOOR BINDER II</b> 20 litre	#991151
<b>Epoxy Mortar Aggregate Extender</b> 16 litre	#992409
<b>Colourpack</b> 1 kg	#Various

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## Safety Precautions

Avoid contact with skin and avoid breathing vapour. Wear gloves and goggles when mixing and using. Keep away from children. Provide adequate ventilation if applied in confined spaces. If poisoning occurs call Doctor or Poisons Information Centre. If swallowed **DO NOT** induce vomiting. Give plenty of water or milk. If skin contact occurs remove any contaminated clothing and wash affected areas thoroughly with soap and water.

**TDG Code:** Easifloor Binder Hardener UN 1760 Easifloor Binder Compound Not classified

## Note

The figures quoted for work time, cure time and coverage are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide.

## Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website [www.epirez.com.au](http://www.epirez.com.au).

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