

## Lambert® MacFloor EP500 System

### Multi-purpose epoxy system, broadcast coating, sealer coat, mortar screed floor system

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**Description** Lambert MacFloor EP500 is a low viscose, multi purposed epoxy floor system. Due to the low viscosity highly filled mortar screeds, broadcast layers and sealer coats can be produced. It provides excellent abrasion and chemical resistance for floor subject to constant traffic.

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**Uses**

- ❖ High performance epoxy coating for floors
- ❖ Factories, warehouse, laboratories, hospital, showrooms, storage
- ❖ In areas where chemical resistance and easy cleaning required
- ❖ Maintenance workshops, loading ramps with normal up to medium heavy wear
- ❖ Broadcast system for wet areas, such as beverage industry, car park floor and food industry
- ❖ Swimming Pool

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**Advantages**

- ❖ Good chemical and mechanical resistance
- ❖ Universal binder system for different purpose flooring
- ❖ Abrasion resistant
- ❖ Easy application
- ❖ Low maintenance

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**Property**

**MacFloor EP250**

Appearance	Clear
Tack-free	<4 hr.
Bond Strength	≥10 kgf/cm <sup>2</sup>
VOC Content	< 50%

**MacFloor EP322**

Appearance	Flat
Working Time	>25 min, 25°C
Hardness (Shore type D)	≥65
Compressive Strength	≥400 kgf/cm <sup>2</sup>
Tensile Strength	≥150 kgf/cm <sup>2</sup>
Flexural Strength	≥200 kgf/cm
VOC Content	< 3%

**MacFloor EP-500**

Appearance	Flat
Viscosity (cps)	4000~8000
Hardness (Shore type D)	≥75
Compressive Strength	≥500 kgf/cm <sup>2</sup>
Tensile Strength	≥180 kgf/cm <sup>2</sup>
Flexural Strength	≥300 kgf/cm <sup>2</sup>
VOC Content	< 3%

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**Packaging**

Lambert MacFloor EP250 : 15 kg set  
 Lambert MacFloor EP322 : 15 kg set  
 Lambert MacFloor EP500 : 25 kg set

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**Shelf life and storage**

12 months from date of production when stored in original unopened packaging in a cool, dry place.

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## Instructions for use

### Surface

#### Preparation

The surface must be clean, dry and free of laitance, dirt, oil, grease or other contamination. Acceptable methods of cleaning are vacuum, shot blasting, sandblasting, acid etching or mechanical grinding followed by the complete and thorough removal of any residue.

### Priming

Apply Lambert MacFloor EP250 Primer at a rate of 0.2 kg per square metre. Avoid puddles or ponding the primer.

### Application

Open full tin of MacFloor EP322 component A and pour into mixing tank, then pour MacFloor EP322 component B Hardener into the tank too. Clean out any residue in tin and make sure the mixing ratio same as designed.

Mix thoroughly by electric mixer at least 3 minutes.

Add CC-90 aggregate and mix for a further 2 minutes.

Pour the mixed material on the primed surface and spread to required thickness by toothed trowel, squeegee or texture roller.

Tack free time is about 2 hours at 35°C, should be dry in 6 hours and fully cured in 3 days.

### Top Coating

Mix two component MacFloor EP500 top coat thoroughly with correct ratio, then pour mixed material immediately and spread to required thickness. Blind the surface with CC-50 aggregate, leave for 3 hours then remove and recycle excess aggregate. Apply top coat again if required.

Top coat should be cured in 24 hours.

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### Precaution

- ❖ Store MacFloor EP500 System material in dry and cool warehouse. MacFloor EP500 System material is flammable, keep it far from fire and direct sunlight
  - ❖ Handle MacFloor EP500 System material with care. If any MacFloor EP500 System material splash on clothes or skin, wipe it away, clean with Ethyl Acetate, then wash with plenty of water.
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**Notes**

The information, and, in particular, the recommendations relating to the application and end use of Lambert products, are given in good faith based on Lambert's knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respects of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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