

## Technical Datasheet

# IZOZEN® EPOFLOOR 100 (AB)

## High performance primer for epoxy coating and floor systems

### Description

IZOZEN® EPOFLOOR 100 (AB) is a high penetration primer suitable for use with a wide range of epoxy coatings and floor systems.

IZOZEN® EPOFLOOR 100 (AB) provides the following properties:

- Formaldehyde free
- Low viscosity
- Solvent free
- Penetrating
- Enhances bond
- Stops out gassing

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

Epoxy coating and floor systems should be applied by experienced coating crews. IZOZEN® provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

### Fields of application

IZOZEN® EPOFLOOR 100 (AB) may only be used by experienced professionals.

- For low to medium absorbent substrates.
- Binder for levelling mortars and mortar screeds.
- For priming concrete substrates, cement screeds and epoxy mortars.
- Primer for the IZOZEN® EPOFLOOR 101 (AB), IZOZEN® EPOFLOOR 102 SL (AB) flooring systems.
- Intermediate layer underneath IZOZEN® EPOFLOOR 101 (AB), IZOZEN® EPOFLOOR 102 SL (AB).

### Technical data

|                   |                            |
|-------------------|----------------------------|
| Form:             | Epoxy                      |
| Volume solids:    | 100%                       |
| Specific Gravity: | 1.05 ± 0.05                |
| Pot life:         | 60 mins at 30C (86F)       |
| Touch dry:        | 3 hours at 30C (86F)       |
| Recoat time:      | 6 to 24 hours at 30C (86F) |
| VOC:              | VOC = 0 g/L                |
| Shore D Hardness: | ~76 (7 d / +23 °C)         |

### Directions for use

#### 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 captive blasting to produce a lightly exposed aggregate surface i.e. a ICRI CSP 4 or 5 surface profile. Any bug holes (blow holes) should be filled with appropriate material (Consult with technical department of IZOZEN®)

#### Moisture Testing

The concrete slab should be tested for moisture with the Rapid RH system following the procedure in ASTM F2170. If the humidity reading is greater than 80% then conduct moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. If the MVER is under 3lbs/1000ft<sup>2</sup>/24h use appropriate primer. If the MVER is 3 to 5 lbs/1000ft<sup>2</sup>/24h use primer at 165 microns wft. If the MVER is 5 to 12 lbs/1000ft<sup>2</sup>/24h use two coats of primer at 200 microns wft per coat.

#### Mixing

IZOZEN® EPOFLOOR 100 (AB) Primer using the following technique. Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (500 rpm) with an Coating Mixer Paddle for 3 minutes or 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 a single coat of 100 micron (4mils) wet film thickness using brush, roller or airless spray. When using airless spray, tip size should be 0.015" to 0.0018" at a pressure of 2200psi. Allow to dry before over coating. Ensure that no ponding of the primer occurs and that it is not applied too thick. Recoat after 6 to 24 hours at 30C (86F). If the primer is left to dry for more than 24 hours the surface will have to be re-primed. Porous substrates may require a two coat application.

Tensile Adhesion  
Strength: > 1.5 N/mm<sup>2</sup>  
(failure in concrete)

### Shelf life – Storage

24 months from date of production if stored properly  
Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.

Protect from direct sunlight and frost.

### Remarks

Before pouring suitability tests on the fresh concrete must be carried out.

Due to the extended workability take special care that formwork is properly installed and secured. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. When using IZOZEN® EPOFLOOR 100 (AB) a suitable concrete mix must be designed for the local material sources and should be trialed. When accidental overdosing occurs the set retarding effect and workability increases.

Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

IZOZEN® EPOFLOOR 100 (AB) must not be added to dry cement.

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### Consumption

|                                                           |                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------|
| Priming:                                                  | 0.25 - 0.55 kg/m <sup>2</sup>                                                       |
| Bonding bridge:                                           | 0.3 - 0.5 kg/m <sup>2</sup>                                                         |
| Levelling mortar fine<br>(surface roughness < 1 mm)       | ~1.7 kg/m <sup>2</sup> /mm (1 pbw IZOZEN® EPOFLOOR 100 + 0.5 pbw IZOZEN® IZOIFIL 1) |
| Levelling mortar medium<br>(surface roughness up to 2 mm) | ~1.9 kg/m <sup>2</sup> /mm (1 pbw IZOZEN® EPOFLOOR 100 + 1-3 pbw IZOZEN® IZOIFIL 1) |
| Intermediate layer (self-smoothing 1.5 - 3 mm)            | ~1.9 kg/m <sup>2</sup> /mm (1 pbw IZOZEN® EPOFLOOR 100 + 1-3 pbw IZOZEN® IZOIFIL 1) |

Additional Broadcast with IZOZEN® IZOIFIL 2 3-5 Kg/m<sup>2</sup>

### Packaging

5 Kg, 20 Kg (AB)

### IZOZEN® Health and Safety Message

- Always wear safety goggles, Mask, Helmet when working with hazardous materials.
- Follow safety procedures at all times when using power tools.
- Make sure your work area is tidy and free of trip hazards.
- Watch where you're walking – don't run in the workplace!
- Always use the appropriate lifting technique when moving heavy objects.
- Keep jewelry and other loose objects away from machinery.
- Don't eat or drink near hazardous materials.
- Report unsafe conditions immediately to your supervisor.
- Wear the correct clothing for the job – no loose clothing or jewelry!
- Take regular breaks and stay hydrated while working.
- Always be aware of your surroundings.
- Always use personal protective equipment when working with chemicals.

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The technical information and instructions supplied in this datasheet are based on the knowledge and experience of the Research and Development Department of our company and on results from long-term applications of the product in practice. The recommendations and suggestions referring to the use of the product are provided without guarantee, since site conditions during the applications are beyond the control of our company. Therefore the user is responsible for confirming that the chosen product is suitable for the envisaged application. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. | Edition: 2025

