

# INDUFLOOR®-IB 3100

Art.-No. 5 55085

## QUARTZ BASED SURFACE HARDENER FOR INDUSTRIAL FLOORS

### Product Description:

INDUFLOOR®-IB 3100 is a blend of cement-based hardeners for improving concrete surfaces of industrial floors.

- Increases life expectancy.
- High abrasion resistance.
- High impact resistance.
- Improved resistance to oil and grease.
- Increased impermeability to water.
- Simple and efficient application.
- Can be coloured if desired.

### Area of Application:

INDUFLOOR®-IB 3100 is primarily used in:

- Production areas and warehouses
- Loading and unloading ramps
- Aircraft hangers and helipads
- Supermarkets

### Technical Properties:

Basis	: cement with quartz aggregates and pigments.
Standard colour	: cement grey, further colours on request.
Density	: approx. 1.70g/cm <sup>3</sup> at +23°C.
Substrate	
Temperature	: min. +5 °C; max. +35°C (protect from direct sunlight and draughts).
Ambient temperature:	min. +5°C; max. +35°C (protect from direct sunlight and draughts).
Relative humidity	: min. 30% / max. 98%.
Foot traffic after	: approx. 12 hours at +23°C.
Fully cured	: after 7 days at +23°C.

### Cleaning:

Clean all tools immediately after use with water.

### Packaging:

25 kg bags

### Shelf-life:

12 months when stored dry and cool, above +10 °C in original unopened packaging.

### Substrate:

- Fresh concrete.
- Concrete quality: min. C20/25.
- Minimum thickness: 15 cm.
- Well compacted using vibration.
- Finished to the desired level.
- The use of plasticisers is recommended.

**Note:** remove puddles before broadcasting with quartz.

### Method of Application/Consumption:

#### Pre-smoothing:

The correctly levelled concrete surface should be pre-smoothed with a power trowel.

#### Broadcasting:

Evenly broadcast INDUFLOOR®-IB 3100 by hand onto the prepared surface.

Consumption: 4 - 7 kg/m<sup>2</sup>

Thickness per coat: 2 – 3 mm

The broadcasted material absorbs moisture from the fresh concrete (dark colouration) within 10 – 20 minutes.



### *Application:*

After this waiting period, the material is worked into the substrate with a power trowel. Hard-to-reach areas must be manually worked with a trowel.

### *Smoothing:*

Waiting time between individual smoothing operations is based on the composition of the concrete and the temperature. Waiting time before setting/stiffening: approx. 30 - 60 minutes.

### *Optional requirement: Post smoothing*

When there is a demand for an extremely smooth and dense surface it is possible to post-smooth several times after a further 1 to 2 hours depending on climatic conditions.

### *Finishing treatment:*

Post-treatment of INDUFLOOR®-IB 3100 is carried out according to the smoothing process in DIN 1045-3, or with INDUFLOOR®-IB 1030 (see technical data sheet), or INDUFLOOR®-IB 1050 (see technical data sheet).

### *Joint formation:*

The site-specified joints are to be cut mechanically. Structural joints are to be brought through in all cases. The joints are to be treated depending on loading/use and sealed with INDUFLEX-VK6060.

### **Important Advice:**

- When the relative humidity is below 40%, surface efflorescence may occur.
- When the relative humidity is above 80% this may lead to some surface bleed as well as slow curing and therefore delayed timings for smoothing.
- Colour variations may occur. Variations within raw materials used cannot be excluded.
- Spilled liquids must be removed immediately.

- Spraying with water during the smoothing process is to be avoided at all costs. It leads to shrinkage cracks, colour variations and/or loss in strength.
- Abrasive wear leads to surface scratches.
- Applications that are not clearly explained in this technical data sheet may only be carried out after consultation with and written confirmation from the Technical Services Department of AQUAFIN Pakistan.

Please observe a valid EU safety data sheet.

### **GISCODE: ZP 1**

