

## ConFloor EP AS

Epoxy Self-Levelling, Ant-static, Conductive Flooring System

### DESCRIPTION

ConFloor EP AS is epoxy based, solvent free, conductive, self levelling flooring system. It provides a hard-wearing, seamless, antistatic floor with an electrical resistance, in accordance with BS 2050.

ConFloor EP AS is available in standard colors and exhibit excellent hygienic properties.

### USES

ConFloor EP AS is suitable for:

- Pharmaceutical Production Plants.
- Laboratories
- Hospital Operation Theatres.
- Power Plants.
- Electronic components manufacturing.
- Aerospace and defense industry.
- Telecommunication control rooms.

### ADVANTAGES

- Solvent free, low odor.
- Seamless & hygienic finish.
- Excellent mechanical strength and anti-static properties.
- Easy application
- Excellent adhesion
- Excellent chemicals resistance to sugars and acids.
- Low maintenance

### Technical Specs & Physical Properties

Appearance	Epoxy Self-Levelling Flooring System, available in standard colors. (Glossy/ Matt)
Mixed Density	2.1 Kg./- Ltr. @ 25 <sup>o</sup> C
Thickness	2-3 mm
Pot Life@20°C:	45 minutes
Recoat time@20°C:	18-24 Hrs.
Foot Traffic	24 Hrs.
Light vehicle:	48 Hrs.
Full Cure:	7 Days.
Compressive strength	60 N/mm <sup>2</sup> @ 25 <sup>o</sup> C (14 days)
Flexural Strength	40 N/mm <sup>2</sup> @ 25 <sup>o</sup> C (14 days)
Tensile Strength	25 N/mm <sup>2</sup> @ 25 <sup>o</sup> C (14 days)
Bond Strength	3.2 Mpa
Electrical Resistance	5.0x10 <sup>4</sup> 1x10 <sup>8</sup> BS 2050
Surface Resistance	6.9x10 <sup>8</sup>
Temperature Resistance	-20 <sup>o</sup> to +60 <sup>o</sup>

### APPLICABLE STANDARDS

ConFloor EP AS confirms with **BS-2050**

### APPLICATION INSTRUCTIONS

#### Surface Preparations:

All contacted surfaces must be free of oil, grease or other contamination which may inhibit bond.

Any loose concrete should be removed and repaired to provide a solid foundation. The compressive strength of the floor substrate should not be less than 3,250 PSI. The moisture content of the substrate should not be higher than 5%.

Whole floor surface should be grinded to achieve smooth and solid surface. All existing construction and expansion joints should be cleaned and treated before priming the substrate. Fill any holes or large depressions with an epoxy scratch coat to minimize any surface defects.

**Primer:**

Apply two component epoxy primer over the sound and dry surface, with brush or roller.

**Scratch Coat:**

Depending on the surface profile/level, scratch coat is applied. It's basically to smooth level the floor substrate.

**Conductive Grid:**

A conductive network of self-adhesive, copper tape is recommended for anti-static flooring system. This tape is directly applied over the cured primed and smooth levelled surface. There should be 2 earthing points for an average area of 100 m<sup>2</sup>.

**Anti-Static Flooring:**

Apply two component conductive primer over the whole surface. When primer is dry within 18-20 hours, pour top layer of self-levelling epoxy flooring system. Spread the material with notch trowel or steel float to the required thickness level. Once equally spread use spike roller to release entrapped air in the freshly laid epoxy layer. Rolling should be stopped, before material starts to gel.

**PACKAGING**

**ConFloor EP AS** is supplied in 20 Kgs. Packing.

**Includes:**

- Two component primer
- Scratch Coat/ Levelling Layer
- Coper Tape
- Conductive Primer
- Conductive Top Layer

**STORAGE**

**ConFloor EP AS** is epoxy based resin & it must be stored in the original unopened containers at 10<sup>0</sup> C - 30<sup>0</sup> C.

**SHELF LIFE**

**ConFloor EP AS** has a shelf life of 12 Months at 10<sup>0</sup>-30<sup>0</sup>, if stored in original packing under covered area.

**HEALTH & SAFETY PRECAUTIONS:**

**ConFloor EP AS** is toxic, but it is alkaline in nature.

**Hazard Class:** No dangerous goods

**TECHNICAL SERVICES:**

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

**Important Note:**

**RADIANT Construction Technologies** manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.