

Product Data Sheet  
Edition 07.2008  
Identification No. F - 12



## KEMFLOOR E81

Multi Purpose, High Chemical Resistance SF- Epoxy Resin Floor Coating

### Description

**KEMFLOOR E81** is solvent free, transparent or coloured, highly chemical resistant with excellent mechanical properties 2- pack epoxy resin binder suitable for finishing of concrete floor using different system as high build system, multi layer system as well as textured coating.

### Where to use

KEMFLOOR E81 is a hard wearing ,easily cleaned, attractive coloured floor coating (non- slip if required) with abrasion resistance , high chemical resistance finish used for :-

- Industrial flooring subjected to normal or moderately heavy loading.
- Chemical industries
- Dying, finishing & textile plants.
- Power stations
- Basements.
- Laundries.

### Advantages

- Solvent free , seamless
- Non slip for safety of personnel
- Easy to apply pre - weighted packing
- Easy to clean.
- Good adhesion to substrate.
- High chemical resistance.
- Durability, hard wearing & high abrasion resistance.

### Properties

Color	clear, grey or dark colors
Sp, Gravity	1.6 ± 0.06
Solids by volume	100%
Pot life	131°C
Recoating time	120 min at 23°C
Fully cured	24 hrs at 23°C
Compressive Strength *	60-70 N/mm <sup>2</sup>
Tensile Strength*	25-30 N/mm <sup>2</sup>
Flexural Strength*	15-20 N/mm <sup>2</sup>
Bond Strength*	1.5-2.5 N/mm <sup>2</sup>

\* 7 days at 23°C

### How to use

#### Surface preparation:

- The concrete surface must be clean, dry, free of dust, laitance and unsound concrete and of oil, grease and mould.
- The all damaged areas, cracks and surface irregularities must be repaired and smoothed first by using KEMREPAIR or KEMREPAIR EP.
- The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale.
- The concrete surface must be mechanically prepared with approved method as (Shot Blasting) to remove laitance and to achieve the required surface profile complying with ( ICRI) specification.

#### Mixing:

- Stir the contents of part A with an electrical stirrer to disperse any settlement.
- Add part B to part A completely for 2 – 3 minutes with a low speed stirrer until a homogenous mix is achieved.
- Mixing ratio (4.1: 0.9) by weight.

#### Application:

- KEMFLOOR E81 can be applied by brush, roller or airless spraying gun to get a uniform spread and for textured coating textured roller must be used.
- Being solvent free, there is no limit to film thickness.
- Anti-slip finish may be achieved by broadcasting specially graded silica sand as in the multi layer finishing system.
- For the application on green and damp concrete, the substrate must be primed by using WETSEAL.

#### Theoretical Coverage :

##### •Concrete substrate

##### 1st step

Sealer E115\* : 0.2 – 0.3 kg /m<sup>2</sup>

- In Case of smooth surfaces, high dense concrete & hygienic surfaces solvent free SEALER E43 can be used.
- In case of wet or green concrete substrates WETSEAL can be used

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#### 2nd step

2 coats of KEMFLOOR: 0.5 - 0.6 Kg/m<sup>2</sup> @ 0.3-0.4 mm D.F.T – High Build System (smooth finish)

2 coats of KEMFLOOR: 0.8 - 1 Kg/m<sup>2</sup> @ 0.5-0.6 mm D.F.T – High Build System (texture finish)

2 coats of KEMFLOOR: 1.6 - 2 Kg/m<sup>2</sup> @ 1- 3 mm D.F.T – Multi Layer System (Anti Slip finish)

Filler : 5 - 8 Kg/m<sup>2</sup> @ 0.3-0.7 mm – Multi Layer System (Anti Slip finish)

#### •**Steel Substrate :**

##### 1st step

KEMPRIM M : 0.2 – 0.3 kg/m<sup>2</sup>

##### 2nd step

2 coats of KEMFLOOR: 0.5 – 0.6 kg/m<sup>2</sup> (Final) , 0.3 – 0.4 mm D . F . T

#### **Cleaning :**

Clean all tools and equipment immediately after use with PROKEM special solvent.

#### **Packaging:**

Part (A+B) 1, 5 kg pails.

#### **Storage :**

KEMFLOOR E43 has a self life for 12 months if kept in original and undamaged packing in a dry condition.

### Additional Information

PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure. PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range.

For our customers satisfaction, PROKEM extends technical services to include after sales support to assist users in a proper handling of our products.

### Health and Safety

- Use gloves and a breathing mask when applying.
- Apply forced ventilation in confined spaces.
- Skin splashes to be removed with hand cleanser, soap and water.
- Eye splashes to be removed with plenty of water.If ingested seek medical advice.