

Kemfloor E81

Multi-Purpose, High Chemical Resistance Solvent-Free Epoxy Resin Floor Coating

Description	Kemfloor E81 is solvent-free, transparent or Colored, highly chemical resistant with excellent mechanical properties 2 packs epoxy resin binder suitable for finishing concrete floors using different systems such as a high build system, a multi-layer system as well as a textured coating.
Where to use	Kemfloor E81 is a hard-wearing, easily cleaned, attractive colored 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.
Advantages	• Solvent-free, seamless. • Non-slip for the safety of personnel • Easy to apply pre-weighed packing • Easy to clean. • Good adhesion to the substrate. • High chemical resistance. • Durability, hard wearing & high abrasion resistance.
Properties	
Color	Clear, Grey, or Dark colors
Specific gravity	1.6 ±0.06
Solids content by volume	100 %
Pot life @ 23 °C	40 min.
Recoating time @ 23 °C	24 hrs.
Fully cured @ 23 °C	7 Days
Compressive strength	60 – 70 N/mm ²
Tensile strength	25 – 30 N/mm ²
Flexural strength	15 – 20 N/mm ²
Bond strength	1.5 – 2.5 N/mm ²
Flash temp.	140 °C

Surface Preparation	• New poured concrete: • Concrete compressive strength >25 N/mm² & bond strength >1.5 N/mm² • Allow to fully cure 28 days prior to application. • Remove any curing membrane by sanding or etching with a strong detergent. • Moisture content must be less than 4%. • For wet concrete apply Wetseal as a priming coat. • Old concrete: • Thoroughly clean the surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shot blasting, sanding, or grinding. Proceed as for newly poured concrete. • Previously coated concrete: • Remove any peeling or degraded paint by sanding or using a paint stripper. • For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. • Treat any areas worn down to the original concrete as bare concrete. • All damaged areas, cracks, and surface irregularities must be repaired and smoothed first by using Kemrepair EP and a bonding layer using Kembond EP. • Steel surface: • The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale.
Expansion Joints	Shall be installed in accordance with local building codes. Never bridge an expansion, contraction, or construction joint.
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 homogeneous mix is achieved.
Application	• Application at temp. +10°C / +30 °C & R.H 85%. • 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 a specially graded silica sand as in the multi-layer finishing system. • For the application on green and damp concrete, the substrate must be primed using Wetseal.
Cleaning	Tools and equipment should be cleaned with PROKEM special solvent immediately after use
Theoretical coverage	Prime the prepared surface using Sealer E43 at a theoretical consumption of 0.15 – 0.2 Kg/m² In the case of wet or green concrete substrates Wetseal can be used Apply Kemfloor E81 0.25 – 0.3 Kg/m² for a D.F.T of 150 – 200 micron 2 coats are always recommended For Anti-Slip Applications or Multi-Layer Systems Kemfloor Aggregate: 1 - 2 Kg/m²

Packaging	1 & 5 Kg Pails (A+B)
Shelf life & storage	Kemfloor E81 has a shelf life of 12 months if kept in its original packs in a dry condition
Health and Safety	This product is of low toxicity but normal precautions should be observed. Wear gloves, and if working overhead or spraying, wear goggles. Wash off any skin splashes with soap and water. Irrigating the eye with an eye bathing solution should treat eye contamination. Ensure adequate ventilation in confined spaces and use breathing aids. If ingested, drink milk or water and seek medical attention.
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 structures. PROKEM designs tailor made products should there be a critical application that requires specific properties rather than our main range. For our customer's satisfaction. PROKEM reserves the right to change the properties of its products. All orders are accepted subject to our current terms of sale & delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request. PROKEM extends technical services to include after sales support to assist users in the proper handling of our products.