

Kemcrete EP

Unique Solvent-Free Epoxy Floor, Chemical Resistant & Exceptional Temperature Resistance -40 °C up to 120 °C

Description	Kemcrete EP floor coating is a unique solvent-free epoxy based on special mixed hardeners. It is dense, impervious, resistant to chemicals and designed for continuous protection in light to medium duty applications at thickness between 0.5-1.5 mm. It is hygienic, wear and abrasion resistant, resistant to temperatures between – 40 °C up to + 120 °C and whenever a robust long lived floor is required
Where to use	Kemcrete EP is used extensively in the following: • Pharmaceutical & medical industries. • Loading and discharging zones of boiling water, hot fats, oils, and up to 120 °C • Food & beverage industries. • Chemical industries. • Abattoirs • Cold storage areas & freezer rooms -40 °C
Advantages	• Resistant to temperatures – 40 °C up to 120 °C (occasional spillage & water vapor up to 150 °C) • Hygienic & none tainting. • Monolithic & easy to clean. • Resistant to a wide range of chemicals such as (50% acetic acid, 100% oleic acid, concentrated citric acid, 100% methanol), Chemical resistance tables are available upon request. • Zero absorption. • Wear and abrasion resistant. • Withstands impact loads. • Slip resistance (agg. no.1). • Will not support bacterial growth.
Properties	
Density	1.6 ±0.06 g/cm ³
% Volume solid content	100 %
Pot life @ 23 °C	60 minutes
Fully cured	7 Days
Temp resistance	-40 °C/+120 °C
Toxicity test	Non-toxic
Compressive strength	40 - 50 N/mm ²
Flexural strength	30 - 33 N/mm ²
Tensile strength	22 - 23 N/mm ²
Water absorption	5.35%
Impact resistance	40 Kg height 2m (no failure)
Antibacterial activity (R)	1.3 - 1.9

Surface Preparation	The concrete surface must be clean, dry, and free of dust, laitance, and unsound concrete and of oil, grease, and mold. All damaged areas, cracks, and surface irregularities must be repaired and smoothed first by using Kemrepair EP and bonding layer using Kembond EP . The steel surface should be blasted to Sa 2 ½ surface quality to remove rust and mill scale.
Mixing	Stir the contents of part A with an electrical stirrer to disperse any settlement. Add part B to part A and stir completely for 2 – 3 minutes with a low speed stirrer until a homogeneous mix is achieved
Application	• Prime the prepared surface using Kemcrete EP/Sealer • Kemcrete EP can be applied by brush, roller or airless spraying gun to get a uniform spread • Being solvent free, there is no limit to film thickness • Anti-slip finish may be achieved by broadcasting a specially graded silica sand (agg. no.1) in excess • For the application on green and damp concrete, the substrate must be primed by using Wetseal.
Theoretical Coverage	Kemcrete EP/Sealer at a theoretical consumption of 0.1 – 0.2 Kg/m ² *In the case of wet or green concrete substrates Wetseal can be used Apply Kemcrete EP 0.25 – 0.3 Kg/m ² 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/m ²
Cleaning	Clean all tools and equipment immediately After use with Prokem special solvent.
Packaging	(A+B) 5 & 20 Kg. pails
Shelf life & storage	12 months if stored in unopened containers in cool, dry condition.
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 are to be removed with plenty of water. • If ingested seek medical advice.
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.