

Kemfloor ESL/ Novolac

Heavy Duty, High Chemical Resistant Self-Leveling Epoxy Floor Topping

Description	Kemfloor ESL/ Novolac is a solvent-free 3-components binder based on epoxy Novolac resin and graded fillers to produce a self-smoothing floor topping. It can be applied at the thickness of 1-3 mm
Where to use	An easy to clean, with an attractive appearance for concrete floors such as: • Self-smoothing epoxy floor for moderate and heavy industrial use. • For the production of self – smoothing epoxy floor on concrete and cement screed with excellent chemical resistance and attractive appearance. • Pharmaceutical plants. • Food industries. • Bottling plants. • Dairies.
Advantages	• Easy to apply pre-weighed packing. • Easy to clean. • Good adhesion to substrate. • Easy to lay. • Excellent abrasion resistance. • Superior chemical resistance. • No over coating, achieved in single operation. • Available in a wide range of colors to enhance the working environment.
Properties	
Color	White, gray and others are available on request.
Solids by volume	100 %
Specific gravity	1.87 ±0.06
Flash point	140 °C
Chemical resistance	See Prokem chemical resistance tables.
Pot life @ 23 °C	45 min
Fully cured	7 Days
Initial curing	24 hrs.
Technical information @ 23 °C after 7days:	
Compressive strength	50 - 60 N/mm ²
Flexural strength	30 N/mm ²
Tensile strength	15 N/mm ²

Surface Preparation	- Concrete compressive strength >25 N/mm² & Bond strength > 1.5 N/mm² (28 days) - Moisture content <4% - All concrete surfaces must be clean, sound, level, dry, and free from dust laitance, and unsound concrete and from oil, grease, and mold. - Steel surfaces should be degreased and blasted to Sa 2 ½ or any other alternative methods to provide clean, sound surfaces.
Mixing	- Stir the contents of pack A to disperse any settlement, and mix thoroughly until homogeneous - Add the mix (A+B) to the filler C (agg. no.1002) and continue mixing for 2-3 min. until all components are thoroughly mixed.
Application	- Apply a full primer using Sealer E43 with a consumption of 0.15 – 0.2 Kg/m² – make sure the whole area is primed and no visible pinholes – repeat when needed - Apply the Self -smoothing mixture of Kemfloor ESL/Novolac with a toothed trowel and remove any entrapped air with a spiked roller. Kemfloor ESL/Novolac should not be exposed to water, chemicals, or mechanical stresses before it is fully cured. - Substrate moisture ≤ 4% - Min substrate temperature +10 °C - Max substrate temperature +30 °C - Max relative humidity 85 % - Can be walked on after 24 hours.
Cleaning	Tools and application equipment should be cleaned with a special solvent immediately after use.
Theoretical Coverage	3.75 – 5.6 Kg /m ² / 2 -3 mm
Packaging	Packages Part (A+B+C) (agg. no.2) 10 & 40 Kg
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.