

Kemfloor Novolac SL/AS

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

Description	Kemfloor Novolac SL/AS is a solvent-free 3-components binder based on epoxy Novolac resin and graded fillers to produce a self-smoothing floor topping considered for antistatic floor system comprising a conductive primer underneath coat, and topped with a smooth finish epoxy floor surface with controlled electric properties. It can be applied at thickness of 1 – 3 mm
Where to use	• 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 • Bottling plants • Batteries Shops / Manufacture facilities
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 minutes
Fully cured	7 Days
Initial curing	24 hours
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
Resistance to earth	10 ⁶ - 10 ⁹ ohm
Surface Preparation	• Concrete should be sound, clean, free from contaminants and dry • Concrete shall allow provisions for movement joints as required • All laitance must be removed and all cracks must be repaired and leveled with Kemrepair EP • Floor substrates shall be prepared by mechanical means such as shot blasting to get a leveled surfaces and vacuum cleaned • Moisture content of concrete is less than 4%

Priming	• Apply Sealer E43 or Wetseal for green concrete and leave 24 hours to dry • Experience has shown that cement mortar or concrete sub-floor may exhibit poor discharge capacity after epoxy topping has been applied
Earthing	• Apply strips of Copper Tape in the sub-floor over the initially primed surface, and connect the ends to any natural conductor attached to the building • Apply a coat of Conductive Primer using roller or squeegee and ensure that no gaps occur to cover the applied Copper Tape • The Conductive Primer resistance of the earth connection must be $10^4 - 10^6$ ohm
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 and continue mixing for 2 – 3 minutes until all components are thoroughly mixed
Application	• The topping compound should be applied using a trowel, serrated edged trowel at a thickness of 1.5 - 2 mm • The freshly laid topping should be treated immediately with a spiked roller shortly for 10 minutes after application • This fresh rolling should be at right angles to the direction of laying • About further 10 minutes the floor should be rolled again at right angle to the first roll • Kemfloor Novolac SL/AS should not be exposed to water, chemicals, or mechanical stresses before it is fully cured • Substrate moisture $\leq 4\%$ • Minimum substrate temperature $+10\text{ }^{\circ}\text{C}$ • Maximum substrate temperature $+30\text{ }^{\circ}\text{C}$ • 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) 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, then and 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.