

DANOFLOOR SL AS

Anti-Static Epoxy Self Levelling Flooring System

DESCRIPTION

DANOFLOOR SL AS is solvent free four-component Epoxy based Anti-Static self-levelling flooring system.

DANOFLOOR SL AS is available in following types depending upon surface resistance requirements:

Type	Surface Resistance	Standard
Electrostatic Conductive	2.5×10^4 to $1 \times 10^6 \Omega$	ASTM F150 / BS 20050
Electrostatic Dissipative	1×10^6 to $1 \times 10^9 \Omega$	

ADVANTAGES

- Antistatic (10^4 - 10^9 Ohm) system
- Aesthetically attractive
- Seamless system
- Good chemical and abrasion resistance
- Carbon fibre free
- Non-dusting and easy to maintain system

USES

DANOFLOOR SL AS is preferred flooring system for use on floors requiring clean and easy to maintain, electro static discharge coupled with good abrasion and chemical resistance in various industries, which includes:

- Air-traffic control rooms and flight deck on ships
- Ammunitions and Pyrotechnics production units
- Optical lenses and photographic production units
- Medical equipment units
- Computer rooms and data centres
- Electronic production areas and assembly shops
- Nuclear power plants
- Synthetic fibre processing mills
- LPG bottling and filling plant
- Areas handling flammable and explosive goods
- Operation theatres & recovery rooms.

APPLICATION INSTRUCTIONS

The application of anti-static self-levelling Epoxy flooring system includes, surface preparation, application of primer, connection to the earthing system, application of conductive base coat and finally application of Epoxy self-levelling flooring to complete the system.

SURFACE PREPARATION

The surfaces must be sound, clean, dry, and free from cracks, undulations, dust, oil, grease, loose particles, etc.

New concrete surfaces should be minimum 28 days old and should be sound with tensile strength >1.5 mPa and moisture content $<4\%$.

SURFACE PRIMING

Apply **DANOFLOOR PRIMER EP** Epoxy-based primer @ 6 to $8 \text{ m}^2/\text{Kg.}$, on well prepared substrate covering the entire area uniformly. Allow the primer to dry. On absorbent or porous surface, it is necessary to apply second coat of primer. (Refer TDS of **DANO FLOOR PRIMER EP** for details).

CONNECTION TO EARTHING SYSTEM

Over the dried primer coat, self-adhesive copper tape, preferably 12 to 25mm width is laid @ 5mtr. c/c , by removing the release film from the tape bottom and sticking it to the surface by pressing the tape against the support and smoothening from the centre to the edges to drive out entrapped air.

The copper tape is then connected to earthing system by providing a copper plate at the junction of floor and wall in "L" shape and connecting the tape to the horizontal face of plate, the vertical end of plate is connected to earthen wire thereby completing the earthing system.

CONDUCTIVE BASE COAT

Apply two-component aqueous Epoxy based anti-static coating **CONDUDAN** by brush or roller @ 8 to 10 m²/Kg., covering the entire area uniformly. Allow the conductive coat to dry.

Water up to 10% can be added to the mix to maintain the application consistency of conductive base coat. (Refer TDS of **CONDUDAN** for details).

ANTI-STATIC SELF-LEVELLING TOPPING

DANOFLOOR SL AS is supplied as pre-weighed four components.

The components of **DANOFLOOR SL AS** shall be mixed by taking **DANOFLOOR SL AS Resin** component in a clean container followed by addition and gradual mixing of **DANOFLOOR SL AS Colouring Paste** component gradually under continuous stirring until homogeneous mix and uniform colour is obtained.

To the previously mixed components (Resin + Colouring Paste) gradually add **DANOFLOOR SL AS Hardener component** under continuous stirring to obtain homogeneous mix. Finally add **DANOFLOOR SL AS Conductive Filler** component and mix until a homogeneous mixture is obtained.

The prepared mix of **DANOFLOOR SL AS** is spread using toothed serrated trowel to a thickness of 2 mm and rolled using spike roller to remove air entrapment and avoid pin holes formation.

Allow the applied system to cure for 2 to 7 days at room temperature before subjecting the floor to use.

CLEANING

Immediately after application of **DANOFLOOR SL AS** use aromatic solvent for cleaning application tools.

APPLICATION DATA

Mix Ratio PBW (Resin: Hardener: Colouring Paste: Conductive Filler)	100 : 55 : 8 : 200
Pot life at 30°C	40 to 80 Minutes
Curing Schedule Foot traffic/ Light load Full traffic load	24 to 48 Hrs 7 Days
Coverage per Pack @ 2mm*	5.8 m ²

*Coverage is approximate and it depends upon the site conditions and surface porosity at the time of application

PROPERTIES OF CURED PRODUCT*

Properties	Values	Test Standard
Surface Resistance (For Conductive Floor)	8.6 X10 ⁵ Ω	ASTM F150/ BS 20050
Surface Resistance (For Dissipative Floor)	8.6 X10 ⁸ Ω	ASTM F150/ BS 20050
Compressive Strength	>55N/mm ²	ISO 604
Flexural Strength	>40 N/mm ²	ISO 178
Tensile Strength	>20 N/mm ²	ISO 527
Bond Strength	35 Kg/cm ² (Concrete Failure)	ASTM D4541
Abrasion Resistance (CS10, 1000 Cycles)	<0.1gm.	ASTM D4060
Impact Resistance	>8 joules	ASTM D2794
Dry Heat resistance	80°C to100°C	ASTM D2485
Scratch Resistance	No Failure @2.5Kg	BS 3900 Part E2

*Properties tested under laboratory condition for specimen cured @25°C to 40°C for 15days. Properties may vary based on actual site conditions.

SUPPLY

DANOFLOOR SL AS is supplied in 18.15 Kg, pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing: 18.15 Kg.

Resin	Hardener	Colouring Paste	Conductive Filler
5 Kg.	2.75 Kg.	0.40 Kg.	10 Kg.

CHEMICAL RESISTANCE PROPERTIES*

No.	Chemical	Concentration	Observation
1.	Acetic acid	5%	Resistant
2.	Hydrochloric acid	20%	Resistant
3.	Sulphuric acid	50%	Resistant
4.	Nitric acid	10%	Resistant
5.	Phosphoric acid	30%	Resistant
6.	Salt solution	Concentrated	Resistant
7.	Sodium hydroxide	30%	Resistant
8.	Water	-	Resistant
9.	Lactic	10%	Resistant
10.	Citric acid	10%	Resistant
11.	Petrol	-	Resistant
12.	Oil	-	Resistant
13.	Fruit juice	-	Resistant

*Tested @ 25 to 35°C for 6 months immersion

STORAGE

DANOFLOOR SL AS must be stored above 5°C. Store under the shed & protect from extremes of temperature, heat, direct sunlight, and children.

SAFETY PRECAUTIONS

As with all chemical products, care should be taken during use and storage of **DANOFLOOR SL AS**.

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