

# DANOFLOOR SL AS



## Epoxy Based Antistatic Self Levelling Floor Compound

### DESCRIPTION

**DANOFLOOR SL AS** is five-component epoxy based antistatic self-levelling flooring system.

### ADVANTAGES

- Antistatic system
- Aesthetically attractive
- Seamless system
- Good chemical and abrasion resistance
- Does not encourage microbial growth
- Non-dusting easy to maintain system

### USES

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

- Air-traffic control rooms and flight deck on ships
- Ammunitions production units
- Pyrotechnics manufacturing units
- Optical lenses and photographic production units
- Medical equipment units
- 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, application of base coat, application of insulating sealer coat, 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, oil, grease, laitance and loose particles.

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 m<sup>2</sup>/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 **DANOFLOOR PRIMER EP** for details).

### BASE COAT

After drying prime coat, apply **DANOFLOOR UL EP** base coat to desired thickness. The prepared mix of base coat is spread using serrated trowel and after approximately 5 to 10 minutes, spike roller is used to remove entrapped air. Allow base coat to cure for 12 to 18 hrs at room temperature before use. (Refer TDS of **DANOFLOOR UL EP** for details)

### INSULATING SEALER COAT

Apply **DANOFLOOR PRIMER EP** epoxy-based insulating sealer coat @ 6 to 8 m<sup>2</sup>/Kg., on base coat covering the entire area uniformly. Allow primer to dry. (Refer TDS of **DANOFLOOR PRIMER EP** for details).

### CONNECTION TO EARTHING SYSTEM

Over the dried insulating sealer 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 smoothing 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 m<sup>2</sup>/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 five components. Prior to mixing of components, the **DANOFLOOR SL AS Conductive Fibre** shall be crushed by hand for easy dispersion in **DANOFLOOR SL AS Hardener** component.

The components of **DANOFLOOR SL AS** shall be mixed by taking **DANOFLOOR SL AS Hardener** component in a clean container followed by addition and gradual mixing of **DANOFLOOR SL AS Conductive Fibre** using slow speed heavy duty electric stirrer to achieve homogeneous lump free mix. Allow the mix to mature for 5 minutes.

In another clean container, pour the **DANOFLOOR SL AS Resin Component** and add **DANOFLOOR SL AS Colouring Paste** gradually under continuous stirring until homogeneous mix and uniform colour is obtained. Add the previously mixed components (Hardener + Conductive Fibre) gradually 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 and rolled using spike roller to remove air entrapment and avoid pin holes formation, while maintaining desired thickness.

Allow the applied system to cure for 24 hours before allowing foot traffic and cure for 7 days before subjecting the floor to vehicular traffic.

#### APPLICATION DATA

<b>Mix Ratio PBW</b> (Resin : Hardener : Colouring Paste : Conductive Filler : Conductive Fibre)	100 : 55 : 7 : 210 : 0.34
Pot life at 30°C	40 to 80 Minutes
<b>Curing Schedule</b> Foot traffic/ Light load Full traffic load	24 to 48 Hrs 7 Days
Coverage per Pack @ 2mm*	6 m <sup>2</sup>

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

#### PROPERTIES OF APPLIED PRODUCT\*

Properties	Values	Test Standard
Surface Resistance	8.6 X10 <sup>4</sup> Ω	ASTM F150 / BS 20050
Compressive Strength	>55N/mm <sup>2</sup>	ISO 604
Flexural Strength	>40 N/mm <sup>2</sup>	ISO 178
Tensile Strength	>20 N/mm <sup>2</sup>	ISO 527
Bond Strength	35 Kg/cm <sup>2</sup> (Concrete Failure)	ASTM D4541
Abrasion Resistance (CS10, 1000 Cycles)	<0.1gm.	ASTM D4060
Impact Resistance	>8 joules	ASTM D2794
Dry Heat resistance	80 to 100°C	ASTM D2485
Scratch Resistance	No Failure @2.5Kg	BS 3900 Part E2

\*Properties tested under laboratory condition for specimens cured @30°C for 15days. Properties may vary based on actual site conditions.

## CLEANING

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

## SUPPLY

**DANOFLOOR SL AS** is supplied in 18.60 Kg, pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing: 18.60 Kg.

Resin	Hardener	Colouring Paste	Conductive Filler	Conductive Fibre
5 Kg.	2.75 Kg.	0.35 Kg.	10.5 Kg.	0.017 Kg.

## STORAGE

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

## CHEMICAL RESISTANCE PROPERTIES\*

Resistance to various chemicals			
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

## SAFETY PRECAUTIONS

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

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