

# DANOFLOOR SL



## Epoxy Based Self Levelling Floor Compound

### DESCRIPTION

**DANOFLOOR SL** is four component epoxy based seamless self-levelling flooring system used to create easy to clean, hygienic, durable, and low maintenance flooring surface.

### ADVANTAGES

- Seamless system
- High gloss and smooth finish
- Excellent adhesion to primed concrete
- Good chemical and abrasion resistance
- Does not encourage microbial growth
- Non-dusting easy to maintain system
- Slip resistant, even when wet

### USES

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

- Pharmaceutical, food and dairy industries
- Hospital clean rooms and laboratories
- Power plants, generator rooms and pump houses
- Industrial kitchens and light duty floors
- Automobile and engineering industries
- Retail centres and departmental stores
- Aircraft hangers and other areas

### APPLICATION INSTRUCTIONS

#### 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 primer to dry. On very absorbent or porous surface, second coat of primer may be required.

Refer TDS of **DANOFLOOR PRIMER EP** for technical and application details.

#### EPOXY UNDERLAY/SCREED

To seal the undulations or profile imperfections in the floor, apply 1mm to 3mm thick **DANOFLOOR UL EP**, a solvent free epoxy based, three component Self-smoothing underlay system to create a smooth and levelled surface before application of the self-levelling floor topping.

Refer TDS of **DANOFLOOR UL EP** for technical and application details.

#### APPLICATION

**DANOFLOOR SL** is supplied as pre-weighed four components, ready to use at site. The components of **DANOFLOOR SL** shall be mixed by taking **DANOFLOOR SL Resin** component, in a clean container followed by addition and gradual mixing of **DANOFLOOR SL Colouring Paste** component, using slow speed heavy duty electric stirrer to achieve homogeneous and uniform coloured mix. To the coloured mix is then added **DANOFLOOR SL Hardener** component under continuous stirring followed by gradual addition of **DANOFLOOR SL Filler** component under continuous stirring until homogeneous mix is obtained. The prepared mix of **DANOFLOOR SL** is spread using toothed trowel and rolled using spike roller to remove air entrapment and avoid pin hole formation, while maintaining required 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, Parts by Weight</b> (RESIN : HARDENER : COLORPASTE : FILLER)	100 : 55 : 8 : 200
Pot life at 25°C	≈ 45 Min.
<b>Curing Schedule</b> Foot Traffic/ Light Load Full Traffic Load	24 to 48 Hrs 7 Days
Theoretical Coverage per Pack* @ 1mm @ 2mm	11.70m <sup>2</sup> 5.80m <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
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)	< 0.10gm.	ASTM D4060
Impact Resistance	>8 Joules	ASTM D2794
Dry Heat Resistance	80°C to 100°C	ASTM D2485
Scratch Resistance	No Failure @ 2.5Kg.	BS 3900 Part E2

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

## SUPPLY

**DANOFLOOR SL** 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	Colour Paste	Filler
5 Kg.	2.75 Kg.	0.40 Kg.	10 Kg.

## CLEANING

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

## 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 at 25 to 35°C for 6 months immersion

## STORAGE

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

## SAFETY PRECAUTIONS

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

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