

# DANOFLOOR SL STF



Epoxy Based Multi-Coloured Self Levelling Floor Compound

## DESCRIPTION

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

## ADVANTAGES

- Seamless system
- Attractive granite 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 STF** is preferred flooring system for use on floors requiring 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
- Electronic assembly shops and computer rooms
- 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 the primer to dry. On absorbent or porous surface, it is necessary to apply second coat of primer.

### APPLICATION

**DANOFLOOR SL STF** is supplied as pre-weighed five components, ready to use at site. The components of **DANOFLOOR SL STF** shall be mixed by taking **DANOFLOOR SL STF Resin** component in a clean container followed by addition and gradual mixing of **DANOFLOOR SL STF Colouring Paste** using slow speed heavy duty electric stirrer to achieve homogeneous and uniform colour mix.

To the prepared coloured mix is added **DANOFLOOR SL STF Hardener** component and stirred gradually followed by addition of **DANOFLOOR SL STF Coloured Granule** component under continuous stirring until homogeneous mix is obtained. Finally, **DANOFLOOR SL STF Filler** component is added gradually under continuous stirring until homogeneous mix is obtained.

The prepared mix of **DANOFLOOR SL STF** is spread using toothed trowel and rolled using spike roller to remove air entrapment and avoid pin holes formation, while maintaining required thickness of 2mm.

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: Filler : Coloured Granules)	100:55:8:200:40
Pot life at 25°C	≈ 45 Minutes
<b>Curing Schedule</b> Foot Traffic/ Light Load Full Traffic Load	24 to 48 Hrs 7 Days
Coverage per Pack @ 2mm*	6.25m <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

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

## CLEANING

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

## STORAGE

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

## SUPPLY

**DANOFLOOR SL STF** is supplied in 20.15 Kg, pack. It has a shelf life of 12 months when stored under the covered shed in sealed condition.

Packing: 20.15 Kg.

Resin	Hardener	Colouring Paste	Filler	Coloured Granules
5 Kg.	2.75 Kg.	0.40 Kg.	10 Kg.	2 Kg.

## CHEMICAL RESISTANCE PROPERTIES

Resistance to various chemicals at ambient temperature (25 - 35°C) (6 months immersion)			
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

## SAFETY PRECAUTIONS

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

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## TIKITAR DANOSA (INDIA) PRIVATE LIMITED

Tiki Tar Estate, Village Road, Bhandup (W), Mumbai - 400 078,

Maharashtra, India. T: +91 22 4126 6699

E: [info@tikidan.in](mailto:info@tikidan.in) | W: [www.tikidan.in](http://www.tikidan.in)



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