

## Self Leveling Epoxy Floor Coating

### Description

A high performance, chemically-cured, solvent-free self-leveling epoxy floor coating with excellent chemical, corrosion, moisture, and stain and abrasion resistance for use on industrial and commercial concrete floors provides a smooth and easy cleaned surface.

#### Benefits :

Seamless and hygienic finish, no crevices where dirt and bacteria can dwell. Excellent chemical resistance to sugar and acids. Easy to clean and sterilize, low maintenance requirement attractive, light reflecting appearance. High abrasion and impact resistance, non-skid floor, solvent free; odorless, fast installation & outstanding hardness and toughness.

#### Area of Usage

To provide an easy to clean, chemical resistant and hard wearing floor finish. For use on the areas where clear and high resistance to chemical and mechanical attack are required. Typical areas of use include pharmaceutical plants, food processing plants, electrical plants, power plants, traffic aisles in factories or warehouse, hospitals, laboratories, corridors, public housing and public buildings.

### Performance Guide

#### FILM PROPERTIES

Compressive Strength (BS6319)	around 60 N/mm <sup>2</sup>
Flexural Strength (ASTM D2370)	around 20 N/mm <sup>2</sup>
Tensile Strength (ASTM D2370)	around 10 N/mm <sup>2</sup>
Bond Strength(Pull-off) (ASTM D4541)	≥cohesive strength of concrete
Abrasion Resistance (C & CA Abrasion as per BS8204)	<0.05mm
Impact Resistance (ASTM D2794)	Good
<b>CHEMICAL RESISTANCE</b>	Excellent resistance to sugars and most acids(organic or inorganic)
Hydrochloric Acid 10%	Good
Sulphuric Acid 10%	Good
Acetic Acid 5%	Limited
Acetone	Limited
Methanol, Petrol	Limited
Caustic Soda	Good
Detergents	

### PRODUCT DATA

COMPOSITION	Pigment: Lightfast Lead Free pigments. Binder : Epoxy & Polyamine.
SOLIDS CONTENT	99 ± 1%
voc	≤ 60 gm/Liter
Theoretical coverage	Theoretical coverage which can be achieved under normal conditions is 2 ft/2kg at 3mm thickness (i.e 1 kg mixture of following ratio)
Shelf life	12 months at 25°C - unopened
Mix ratio by weight	2.8 (Base) : 1 (Curing Agent) : 6.2 (Aggregates)
Induction Time	None
Pot Life	30 mins depends on atmospheric condition
Pack Size	Base : 2.8kg; Curing agent:1.00kg; Aggregates: 12.4kg
Colour Range	Available in Off white & Grey tones. However, subject to special requirement RAL Colors can be provided.

### Application

Thinning	Do not thin
Direction for Use Priming Mixing	Use Nitoflor SLE Primer and allow to dry overnight before topcoat. Pack components are pre-weighed for optimum performance. Never split or proportion packs. Add Curing agent B to Base A container. Mix with slow speed drill and Helical spinner head for maximum 2 minutes. Transfer to large container and mix in the aggregates C with a drill and Helical spinner, or in a pan type mixer, until uniform. Take care to minimize the entrain air and do not add solvent or thinner.
Application	Immediately after mixing, spreading using a steel trowel to the required thickness
Finishing	The mixed SLE coatings must be applied within the pot life. Immediately after spreading Nitoflor SLE should be rolled with a spiked roller to release any entrapped air. It should be rolled again with a spiked roller 10-15 minutes later (depending on temperature).

Curing Times Initial Cure (Light Traffic)	48 hrs
Full Cure (Heavy Traffic)	7 days

### PRE-APPLICATION

Substrate	Must be of sufficient strength to support loads applied through the topping. Concrete substrate must be free from curing compound and concrete sealer. Tensile strength of concrete substrate should not be less than 1.5 N/mm <sup>2</sup> . Substrate temperature should be 15°C (minimum) to 40°C (maximum)
	Proper surface preparation include the following :
	1. Inspection of the concrete substrate
	2. Removal and replacement of non-durable concrete
	3. Decontamination of the concrete surface
	4. Repair of surface profile
	5. Repair of surface irregularities
Requirements	Must be free from rising damp. If moisture content is above 30%, use two coats of Nitoflor Floorcrete Primer. All contamination must be removed to give a clean dry textured surface.

### SURFACE PREPARATION

Old Concrete	Totally enclosed shot blasting or scarification. All residues must be removed to provide a dry, dust free open textured surface. All surfaces must be sound, dry, clean and free of oil grease, dirt, mildew, form release agent curing compounds, efflorescent, loose and flaking paints and other foreign substance
	All damaged areas of floor should be made good and level before applying over with Nitoflor SLE Primer
	To level slight undulations in the floor, a scratch coat of Nitoflor SLE Primer can be applied followed by a 60 mesh sand scatter to smoothen and allowed to cure prior to application.
New Concrete Surfaces	Set at least 30 days before painting. pH must be 10.0 or lower. Recommended moisture level is 5%. Remove laitance and roughen unusually slick poured or precast concrete by sand sweeping. Remove loose aggregate.
Steel Surfaces	All oil, grease contaminants, loose rust, loose scale and loose paint must be removed. Best performance will be obtained by treating all surfaces with Jenson Paint remover followed by Nitoflor Rust remover, following by a high pressure water wash and allow to dry. Prime with Nitoflor SLE Primer.

Important note :

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