



FLORGIENE SL

SELF LEVELLING EPOXY SCREED

PRODUCT DESCRIPTION

FLORGIENE SL is based on carefully selected solventless Epoxy resin composition. It is a three component system consisting of base, hardener and hard wearing quartz fillers. It is a self levelling composition and forms a very smooth, attractive hygienic, hard wearing and chemical resistant floor topping.

PRODUCT FEATURES

Hygienic – It provides a jointless flooring making it dust free and is easy to clean because of smooth surface.

Chemical Resistant – It has excellent chemical resistance to most chemicals

Wear Resistant – It provides a tough floor topping to withstand foot and light vehicular traffic.

Aesthetics – It is available in various colour shades to provide attractive floor finish.

RECOMMENDED USE

FLORGIENE SL is recommended for use where extremely hygienic, abrasion, chemical resistant and dust free environment is required. It is ideally suited for following industries.

- ❖ Pharmaceutical Industries
- ❖ Electronic Assembly Areas
- ❖ Clean Rooms
- ❖ Food Processing Industries

PRODUCT CHARACTERISTICS

Av. Film Thickness.....	2-3mm
Application.....	Serrated Trowel
Cure Time.....	Initial Cure – 6 hrs.
Full Mech. Cure	48 hrs.
Full Chemical Cure.....	7 days
Colours.....	Red, Grey, Green or other as required
Finish.....	Gloss/Semi Gloss
Pot Life.....	30 min.
Mixing Ratio.....	Base : Curing Agent : Silica Aggregates 2 : 1 : 4.5
Coverage.....	3.35 kg. of mixed material for 2 mm
Ready for use.....	To walk – 24hrs.
To light traffic.....	48 hrs.

TYPICAL PROPERTIES :

Compressive Strength	ASTM D –695	65 N/mm ²
Flexural Strength	ASTM D –790	40 N/mm ²
Tensile Strength	ASTM C –307	30 N/mm ²
Surface Hardness Shore D	ASTM D-2240	80
Abrasion Resistance (H22)	ASTM C-501	30 mg
Adhesion to Concrete	MIL-D-3134	25 kg/cm ² cohesive failure in concrete

METHOD OF APPLICATION

APURVA's system should be installed by approved contractors. Following information should be used as a guideline.

SURFACE PREPARATION

The long term durability of the applied **FLORGIENE SL** topping is dependent upon the adhesive bond achieved between the flooring material and substrate. It is most important therefore, that substrate surface is correctly prepared prior to application.

1. New concrete or cementitious substrates should have been placed for at least 28days and have a moisture content of less than 5% before topping with **FLORGIENE SL**.
2. Before application, the surface to be coated should be free from loose particles, rust, oils, grease or earlier coatings and should be thoroughly dry.
3. After surface is dry, all repair work like sealing of joints, cracks filling of cavities and crevices should be carried out.
4. The self levelling action is very localised and does not eradicate irregularities of level present in the original substrate. It is most important, therefore, that adequate surface preparation and repair is undertaken prior to application of **FLORGIENE SL** flooring systems.

1. PRIMING

For use over a concrete surface, **FLORPRIME WB/FLORPRIME EP** primer is recommended depending on substrate condition to ensure maximum product performance.

2. MIXING

Pack components are pre-weighed for optimum performance. Never split packs. Empty contents of Base into a mixing container and pre-mix to assure the suspension of solids. Add Curing Agent and continue to mix to a uniform consistency for 1-2 minutes. Add the quantity of aggregates supplied and mix for 1-2 minutes. Mix with slow speed drill and helical spinner head for 2 minutes. Avoid high speed mixing that will entrain air into the mix.

3. TOP COAT:

Spread the mixture on the floor immediately to the required thickness by means of rollers and serrated trowels. The floor should be rolled by a spike roller to remove trapped air. The floor shall self level to uniform colour and smoothness.

SPECIAL CONDITIONS

Colours

We shall always endeavour to supply the material in the colour shade ordered. However exact matching will not be possible.

Batch to batch colour variation may occur. Ensure that materials for final application are always drawn from the same batch.

Where colour matching is required over more than one order or delivery. Apurva's Technical department must be contacted prior to placing the order(s) and the requirement stated clearly on all orders relating to the project(s).

Substrate Requirements

- Must be of sufficient strength to support loads applied through the topping.
- Must be free from rising damp.
- All contamination must be removed to give a clean dry textured surface.

Substrate Movement

All moving joints must be carried through the **FLORGIENE SL** and properly sealed. Construction joints and cracks may be covered but if substrate movement occurs, the **FLORGIENE SL** will reflect the crack.

Repairs & Levels

Concrete floors are generally laid to a levels tolerance of +/- 3mm under a 3metre straight edge. Whilst **FLORGIENE SL** has excellent local levelling properties, overall level deviations will not be eliminated by laying a self smoothing topping of 2-3mm.

When applied on old floors, all damaged areas of the floor should be made good and upto level using epoxy mortar.

Packaging

FLORGIENE SL is supplied in pre-weighed packs for easy handling. Each pack consists of

- 4 kg. of Base
- 2 kg of Curing Agent
- 9 kg. of Aggregates

It can be supplied in Bulk packing also.

STORAGE & SHELF LIFE

Stored unopened in dry conditions under covered space.

Shelf life will be 6 months

HANDLING AND SAFETY

Take normal precautions to avoid skin contact. Provide well ventilated conditions or use suitable respiratory protection. Wash thoroughly with a suitable resin removing cream – any areas where product comes into contact with skin followed by washing with soap and water. Splashes in the eyes should be well flushed out at least 10 minutes with water or a proprietary eye wash and medical attention sought. This product is flammable and should be kept away from sparks and naked flames – Smoking is strictly prohibited as product is flammable.

The manufacturer reserves the right to change the specifications. Apurva India Limited products are guaranteed against material manufacture and are sold subject to company's Terms and Conditions of Sale. Whilst we endeavour to ensure that advice, specifications, recommendations and information given is correct, we cannot have control over how our products are applied and will not accept liability, directly or indirectly, arising from application of our materials.

For further details please contact :

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