

EUREDUR SL

(SELF LEVELLING EPOXY FLOORING)

INTRODUCTION

The main purpose of a good flooring is its capacity to be walked on and an attractive appearance, both of these requirements being taken for granted nowadays. However, closer examination reveals that there are a variety of prerequisites for a good reliability and stability to the floor. In industry, particularly, a large number of different requirements exist, which are mainly determined by the different industrial sector (food-processing plants, warehouses, computer rooms, etc).

All industries, however, have the following requirements in common:

A long durability combined with a high resistance to mechanical loading.

In addition to this, other properties of a floor, such as resistance to chemicals, harmless non taint in contact with food may be important in individual cases.

EUREDUR SL Self-Levelling Epoxy Flooring as a high grade industrial floor system provides the optimum solution for these applications.

PRODUCT DESCRIPTION

EUREDUR SL is an advanced floor protection system fulfilling the high quality requirements of a smooth gloss finish with minimum housekeeping features. A solvent free epoxy coating, EUREDUR SL has good tolerance of high mechanical stresses and provides a dust free seamless floor which exhibits excellent chemical and solvent resistance.

RECOMMENDED USES

- coating for concrete floors where the requirement is a hygienic dust free environment.
- as an industrial flooring to withstand high mechanical abrasion and loading.
- as a floor finish subjected to chemical spillage.
- surface coating for corrosion proofing effect (reliable protection against acids, lyes, oil, greases and salts).
- seamless flooring for liquid-proof barrier action and waterproofing.
- floor coating with a smooth high gloss finish and an attractive appearance that affords easy cleaning and maintenance.
- seamless floor coating that is harmless and non-tainting in contact with food.
- floor coating with good adhesion and bond even on poor concrete subsurface.
- as an industrial flooring with a long and lasting durability

FIELDS OF APPLICATIONS

- chemical industry production plants.
- hospital and pharmaceutical industries.
- paper and cellulose industries.
- electroplating and electrolysis plants.
- warehouses, workshops and garages.
- supermarkets and other retail outlets.
- heavy engineering plants.
- brewery and soft drink industries.
- textile industries throughout the food processing industries bakeries, dairies, fish preparation, vegetable processing, canteens, abattoirs and meat processing plants, etc.
- electronic industry, laboratories and clean rooms.

ADVANTAGES

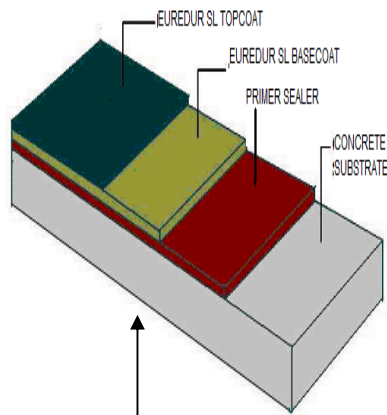
- solvent free coating, can be applied during production time and in confined areas; does not require special ventilation.
- odourless coating, physiologically and ecologically harmless during application.
- high mechanical strength and loading to withstand heavy traffic.
- excellent adhesion to most substrates; concrete, wood and metal.
- excellent chemical and solvent resistance.
- waterproofing and liquid barrier action.
- short hardening time in 8 hours; independent of atmospheric moisture and humidity.
- attractive appearance, smooth, high gloss with variable colour choices.
- long durability and easy to clean and maintain.
- economically competitive to most synthetic coating.



TEXTRACO (MALAYSIA) SDN BHD^{122000-D}

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SIMULATION OF EUREDUR SL

APPLICATION

Surface Preparation

(Concrete)

- all concrete surfaces should be cleaned off laitance, oil, grease and dirt by shot-blasting, machine grinding and scarifying, scraping and brushing.
- provide mechanical key by hammer picking at areas inaccessible to machine cleaning.
- remove dust with vacuum and surface dampness with flame torching.

Priming

(Concrete)

- all prepared and cleaned concrete surfaces shall be primed with EUREDUR Floor Sealer using paint roller.

Purpose

To strengthen concrete top and minimize bubbling by sealing all pores and capillaries within 10 mm depth of concrete surface.

Consumption

200 g/m²(depending on absorbcency of surface).

Drying time (for overcoating)

6 hours.

Coating

- to apply EUREDUR Epoxy fillers to fill all cracks, holes and irregularities on floor to desired uniformity.
- to apply by steel-trowel. EUREDUR SL Self - Levelling Epoxy to smooth finish and to required thickness.
- use spike-roller to deaerate entrained air bubbles.

Construction Preliminaries

1. The floor slab shall be reinforced concrete of minimum 100 mm thickness.
2. The slab shall be waterproofed with an impermeable barrier against rising moisture (ground water effect) by using a minimum 250 micron thick HDPE/PVC membrane well laid with minimum 150 mm wide overlapping sealed with bituminous tape.
3. The floor surface shall have a minimum compressive strength of 21 N/mm² and withstand an imposed load.
4. The floor shall already be provided with fall for good water drainage and free from ponding.
5. The concrete surface shall be power-floated to smooth finish free of sealer , curing agents and surface irregularities.
6. All new concrete surfaces shall be allowed to cure for 21 days before receiving EUREDUR Industrial Flooring.
7. TEXTRACO's representative shall inspect the floor at least 30 days before commencement of EUREDUR application. We shall report immediately to the building owner, architect, consultants and main contractor of any unsatisfactory condition in writing. TEXTRACO shall also write to all parties respectively to acknowledge acceptance of the floor in satisfactory condition.

MATERIALS PROPERTIES & PHYSICAL DATA

NO. OF COMPONENTS :
3

A = Epoxy Resin
B = Epoxy Hardener (modified cycloaliphatic polyamine)
C = Binder Fillers

RECOMMENDED THICKNESS :
2 – 5 mm.

VOLUME SOLIDS : 100%

POT LIFE : 30 minutes

DRYING TIME : 8 hours

FULL CURE : 3 days

COEFFICIENT OF LINEAR THERMAL EXPANSION : 30.10⁻⁶ / ° C.

TENSILE STRENGTH IN FLEXURE : 25 N/mm²

COMPRESSIVE STRENGTH : 60 N/mm²

ABRASION RESISTANCE : 90 mg.

MODULUS OF ELASTICITY: 21000 N/mm²

BONDING STRENGTH : > 2.5 N/mm² (concrete failure)

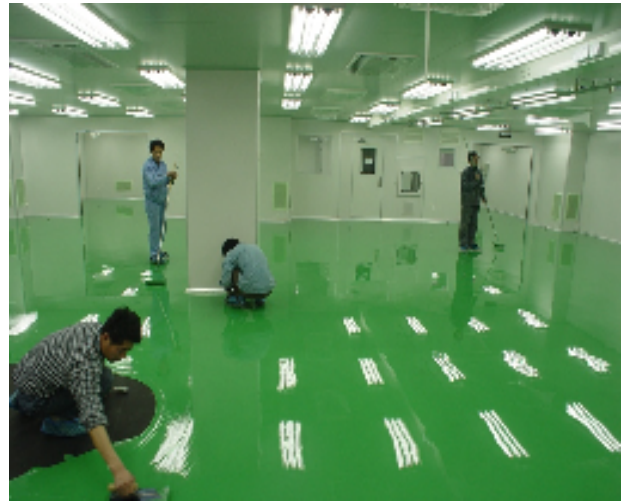


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