

## Self-Smoothing, Solvent free, Epoxy Overlay System for Concrete Floors

### DESCRIPTION

**Rayston Floor SL** is a multi-component, self-smoothing, solvent free, epoxy overlay system. The cured coating provides a glossy, easily cleaned and hygienic surface with excellent resistance to mechanical wear and chemical attack at thickness between 0.7 - 3.0 mm.

**Rayston Floor SL** may be applied to produce either a smooth or profiled finish.

### RECOMMENDED USE

**Rayston Floor SL** is recommended for areas with normal to medium abrasion or where, a high level of aesthetics is essential. Application areas include:

- Clean rooms in pharmaceuticals and other industries.
- Automotive servicing and assembly areas.
- Aircraft maintenance hangers.
- Refurbishment to existing epoxy flooring.

### FEATURES AND BENEFITS

- **Closed pore free surface** - Seamless and gloss film for hygienic application
- **Durable** - Good wear and abrasion resistant
- **Self-Smoothing Liquid** — Easy to apply
- **Low maintenance** - good resistance to a wide range of chemicals

### ESTIMATING DATA

PRIMER	Rayston Floor 1200
COVERAGE	1.65 kg for 1 m2 thickness 1mm

### APPLICATION

#### SUBSTRATE REQUIREMENT

The floor receiving **Rayston Floor SL** must be sound, dry, fine-grained and load bearing, free of laitance, loose and brittle particles and substances which impair adhesion such as oil, grease, rubber skid marks, paint or other contaminants. The tensile strength of the substrate must be at least 1.5 MPa. Ensure that the compressive strength of floor concrete is at least 25 MPa and that the floor slabs directly in contact with the ground have a proper vapour barrier installed and the moisture content of substrate shall not be higher than 4% throughout.

### TEMPERATURE REQUIREMENT

**Substrate temperature:** 15°C to 35°C

**Material temperature:** 15°C to 30°C

Very low or very hot temperature will make application more difficult and careful consideration should be given to storage of materials. In hot weather conditions, some form of air-conditioned storage is required. Pre-conditioned materials at 20°C - 25°C will reduce the possibilities of flash/slow setting and other defects.

### SURFACE PREPARATION

Remove oil, grease, mould release agent and wax contaminants by scrubbing with industrial grade detergent or degreasing compounds followed by mechanical cleaning. Remove cement laitance and weak concrete by shot blasting or grinding followed by vacuum cleaning. Repair damaged or pitted areas using High Strength Epoxy Mortar.

### Priming

Prior to mixing, stir **Rayston Floor 1200** Part A mechanically, add all of Part B and mix for 3 minutes until uniform. Apply **Rayston Floor 1200** by brush roller or squeegee. If necessary, two coats of primer might be required.

### MIXING

Mix mechanically, using a slow-speed drilling machine fitted with appropriate spiral paddle in 2 Steps:

Step 1: Add **Rayston Floor SL** Component "C" (Filler) to Component "A" (Base) and mix it well for 3 minutes.

Step 2: Add **Rayston Floor SL** Component "B" (Hardener) into the Mixed "Step 1" and mix it well for a minute.

### PLACING

**Rayston Floor SL** can be applied to a thickness of 0.7 — 3.0 mm onto a smooth and flat substrate to a self-smoothing finish. Pour the mixed **Rayston Floor SL** over the substrate and spread with a notched trowel or a pin screed to the desired thickness.

Roll the coating with spiked roller to expel air and achieve a smooth finish. Continue spike rolling until all air is released but well before the material starts to stiffen.

## CURING

**Rayston Floor SL** is self-curing. Protect the applied area from dust, spillage, insects and pedestrian traffic for at least 15 hours.

## PROPERTIES

Mixed Density	1.50 kg/liter
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Pot Life	45 min (25°C) 15 min (40°C)
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Setting Time/Foot Traffic	15 hours at 25°C
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Vehicular Traffic	24 hours at 25°C
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Maximum service temperature	-10°C to +60°C
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Compressive strength	> 60 MPa at 7 days
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Abrasion resistance	< 96 mg
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Shore D Hardness	> 78
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Adhesive bond strength adopted	> 2 MPa (concrete failure)
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## PACKAGING

**Rayston Floor SL** is supplied in 30 kg per pack consisting of:

Part A+B	15 kg
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Part C	15 kg
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## SHELF-LIFE STORAGE

**Rayston Floor SL** has a shelf life of 12 months. Store out of direct sunlight, clear of the ground on pallets protected from rainfall. Protect from freezing and discard if it has frozen.