

REC FLOOR 373SL

FLOW APPLIED 3 MM THICK EPOXY RESIN BASED FLOOR TOPPING

DESCRIPTION

REC FLOOR 373SL consists of graded aggregates bound in a pigmented epoxy resin binder. It is supplied as a four-component system, pre-weighed for on-site mixing. When laid it provides a smooth and light reflective surface. It is available in a range of standard colors.

PRIMARY APPLICATIONS

REC FLOOR 373SL is designed for use in a wide range of light to medium industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, colored and chemically resistant floor surface which is hygienic and easy to clean. Typical applications include:

- Plant rooms
- Clean rooms
- Light industrial plants
- Production areas.

FEATURES/BENEFITS

- Fast application - minimizes downtime.
- Chemically resistant - good resistance to a wide range of industrial chemicals.
- Durable - Good abrasion resistance.
- Hygienic - provides a dense, impervious seamless floor surface which is easily cleaned.
- Attractive - available in a wide range of colors to enhance the working environment.

TECHNICAL INFORMATION

	@ 23°C	@ 35°C
Pot life*	1 hour	20 min
Pedestrian traffic time	24 hours	15 hours
Full cure	21 days	10 days
Vehicular Traffic	48 Hours at 25 °C	
Application Thickness	3 mm	
Flexural strength @ 7 days (ASTM C580)	35 N/mm ²	
Tensile strength @7 days (ASTM D638)	18 N/mm ²	
Compressive strength @ 7 days (ASTM C579)	56N/mm ²	
Pull off strength (BS 1881, Pt. 207)	>2 N/mm ² (Failure within @ 7 days cure t h e concrete substrate	
Water absorption (ASTM D 570)	<0.1%	

DIRECTIONS FOR USE

REC FLOOR 373SL should be applied by specialists who must follow the procedures laid down in the Product Method Statement. RECKON CHEMICALS PVT LTD., LAHORE works with a network of such applicators who have been trained in the correct installation procedures. The following steps are involved in the application which would normally take place over a 2 to 3-day period.

SURFACE PREPARATION

It is essential that **REC FLOOR 373SL** is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

New concrete floors

New concrete, or cementitious substrates, should be at least 28 days old and have a moisture content not exceeding 5%. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scabbling or grinding.

Old concrete floors

Existing concrete floors which require refurbishment must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor. Mechanical cleaning methods are strongly recommended particularly where heavy contamination by oil and grease has occurred or existing coatings are present. To ensure adhesion, all contamination should be removed. Proprietary chemical degreaser may be used on small areas of light contamination only.

Steel surfaces

Steel surfaces should be degreased and grit blasted to SA2½ immediately prior to application. The prepared surface should then be primed with one coat of REC PRIME 900.

PRIMING

All surfaces treated with **REC FLOOR 373SL** should be primed with a suitable primer, a solvent-based epoxy resin primer designed for maximum absorption and adhesion to concrete substrates. Add the entire contents of the hardener tin to the base tin and mix the two primer components thoroughly for at least 2 minutes - under no circumstances should part mixing be considered.

Once mixed, the primer should be applied immediately to the prepared substrate using stiff brushes and/or rollers. The primer should be well scrubbed into the substrate to ensure full coverage, but care should be taken to avoid over unsightly application or ponding. Allow the primer to dry and do not proceed while the primer is tacky as this will lead to visible marks in the finished surface. Porous substrates may require a second primer coat - when the first coat is directly absorbed into the substrate but minimum overcoating times must still be observed.

The minimum overcoating times will vary slightly according to the porosity of the substrate. However, they should be in accordance with the following ambient application temperatures.

20°C	30°C	40°C
8-12 hours	6-8 hours	4-6 hours

MIXING

REC FLOOR 373 CL is supplied in pre-measured components that are ready for use. Do not mix only part of the components, as this may affect the performance and appearance of the finished floor. Mix the components thoroughly in a clean, suitable mixing container using an appropriate mixer. First, mix the color component with the base until evenly blended. Then add the hardener and mix thoroughly. Finally, gradually add the aggregate while continuing to mix until the material is completely uniform and free of lumps. Ensure all components are fully mixed before application.

APPLICATION

Once mixed, the material must be used within its specified pot life. Apply the material to the prepared and primed surface as soon as possible after mixing. Spread the material evenly to the required thickness using a suitable screed or trowel. Avoid excessive working of the material. After spreading, use a suitable spiked roller to remove minor surface marks and help release trapped air. Roll evenly using a back-and-forth motion, overlapping each pass by approximately 50%. Complete the rolling before the material begins to set. The rolling process should continue for a minimum of 5 times on the same path, but should be prior to setting of the product.

FLOOR JOINTS

All existing expansion or movement joints should be followed through the new floor surface. Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate - consult the technical representatives of RECKON CHEMICALS PVT Ltd., Lahore for further details.

CLEANING

REC FLOOR 373SL should be removed from tools and equipment with **REC CLEANER** immediately after use. Hardened material can only be removed mechanically.

MAINTENANCE

The service life of a floor can be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a water miscible cleaning agent at temperatures up to 50°C.

PACKAGING

REC FLOOR 373SL is available in 20 kg packs. However, any quantity can be supplied on request.

LIMITATIONS AND APPLICATION CONDITIONS

- Do not apply the flooring system to surfaces affected by rising damp, moisture problems, or excessive moisture.
- Do not apply it to weak, damaged, or unsuitable surfaces such as asphalt, weak concrete, basic sand/cement screeds, or PVC flooring.
- For unusual or unsuitable substrates, seek technical advice from the representatives of the RECKON CHEMICALS PVT Ltd., LAHORE before application.
- Avoid areas exposed to severe or sudden temperature changes unless the system has been confirmed suitable.
- Apply the flooring only when the temperature is between 10°C and 45°C.
- Some minor color changes may occur over time, especially under harsh conditions. This does not normally affect the performance of the flooring.

STORAGE

REC FLOOR 373 SL has a shelf life of 12 months if kept in a dry store in the original, and unopened packs. Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames in the original, unopened packs. If stored at high temperatures the shelf life may be reduced.

HEALTH & SAFETY

REC FLOOR 373SL should not come in contact with the skin and eyes, or be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye protection. If working in confined areas, suitable respiratory protective equipment must be used. The use of barrier creams provides additional skin protection. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention immediately - if swallowed seek medical attention immediately - do not induce vomiting.

QUALITY STATEMENT

All our products are manufactured to comply with our internal quality management system to ensure consistency and quality.

DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use. This Data Sheet version is the latest one. The company may modify it without any prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's head office located in Lahore.

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