

REC COAT FC 674

SOLVENT FREE EPOXY RESIN FLOOR COATING

DESCRIPTION

REC COAT FC 674 is a solvent-free, high-build, pigmented epoxy coating for concrete floors. The fully cured film has good abrasion and impact resistance, good adhesion to concrete floors and good resistance to water, mild chemicals and solvents.

SPECIFICATION

The total dry film thickness of the coating shall be a minimum of 400 microns and shall have a compressive strength of 70 N/mm², flexural strength of 40 N/mm² and tensile strength of 20 N/mm². The floor shall be prepared and the coating mixed and applied in accordance with the instructions and methodology proposed by RECKON CHEMICALS PVT LTD., LAHORE.

PRIMARY APPLICATIONS

- Industrial Floors (Factories, Stores)
- Soft drinks production facilities
- Chemical manufacturing plants
- Car parks and workshops.

KEY FEATURES

- Solvent free - no odor during application.
- Slip resistant - different textures available to suit conditions to avoid slipping.
- Liquid applied providing complete protection.
- Durable with low maintenance requirements

TECHNICAL INFORMATION

Pot Life	20°C	30°C
	45 minutes	25 minutes
Total Cure Time	24 hours	20 hours
Maximum time between Coats	36 hours	18 hours
Light traffic Use After	24 hours	17 hours
Full traffic Use After	48 hours	24 hours
Compressive Strength	70 N/mm ²	
Flexural Strength	40 N/mm ²	
Tensile strength (ASTM D638-99)	20 N/mm ²	
Water Absorption (ASTM D570-98)	<0.1%	
Shore D Hardness (ASTM D2240:1996)	77 – 85	
Resistance to Chemical Spillage	7 Days Exposure	
REC COAT FC 674 is resistant to acids (Citric acid 10%, Acetic Acid 10%, Nitric Acid 10%etc.,), alkalis (Sodium Hydroxide) and some solvents (Petrol, Oil, Kerosene, Butanol).		

SMOOTH COAT		
Primer		8m ² /liter
REC COAT FC 674	Base Coat	5m ² /liter @ 200 microns wft
REC COAT FC 674	Top Coat	5m ² /liter @ 200 microns wft
TEXTURE COAT		
For Medium Texture		1.5 – 3 m ² / Liter
Primer		8m ² /liter
REC COAT FC 674	Base Coat	5m ² /liter @ 200 microns wft
REC COAT FC 674	Top Coat	5m ² /liter @ 200 microns wft
Estimated System Thickness		1.2 – 1.5 mm

DIRECTIONS FOR USE

SUREFACE PREPARATION

The concrete floors should have a moisture content of less than 5%. Floors should be sound and free from contamination such as oil and grease, mortar and paint splashes or curing compound residues. Excess laitance deposits are best removed by light mechanical scabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris. A sound, clean substrate is essential to achieve maximum adhesion. As with new concrete floors, laitance should be removed by light mechanical scabbling, grinding, grit blasting or captive blasting. Oil and grease penetration should be removed.

PRIMING

Priming is generally not required on sound, clean and non-porous concrete. Porous, absorbent or doubtful substrates should be primed with REC PRIMER. REC PRIMER should be mixed in the proportions supplied. Add the entire contents of the hardener to the base. When thoroughly mixed, preferably using a slow speed drill and paddle, the primer should be applied in a thin continuous film, using rollers or stiff brushes. Work the primer well into the surface of the concrete taking care to avoid ponding or over application.

MIXING

Stir the base component thoroughly. Add the complete contents of the hardener to the base and mix thoroughly using a flameproof or suitable industrial-grade low-speed mixer. Scrape the containers to ensure complete transfer of material. Do not add solvent thinners at any time.

STANDARD APPLICATION

The first coat of **REC COAT FC 674** should be applied using a good quality medium haired pile roller, suitable for epoxy application, or squeegee to achieve a continuous coating. Ensure that loose hairs on the roller are removed before use. A minimum film thickness of 200 microns should be applied. This can be increased where specifications demand. When the base coat has reached initial cure (12 hours @ 20°C or 5 hours at 35°C). The top coat can be applied by medium pile roller, at minimum film thickness of 200 microns.

ANTI SLIP APPLICATION

If a slip resistant texture is required, the base coat shall be applied as per the standard application, but at a minimum film thickness of 200 microns. While the base coat is still wet, broadcast the selected anti-slip aggregate evenly over the surface until the coating is fully blinded. This should be done as soon as possible after laying. The recommended procedure is to completely blind the base coat i.e. apply excess dressing aggregate to completely obliterate the base coating. When the base coat has reached initial cure (12 hours at 20°C or 5 hours at 35°C), the excess aggregate should be vacuum cleaned from the surface.

The top coat can now be applied by medium pile roller, at a rate of 5.0m²/liter. Care should be taken to ensure that a continuous film is achieved and the rough surface, caused by the aggregate, is completely sealed. This top coat must be applied within 36 hours at 20°C (18 hours at 30°C) of the application of the first coat.

EXPANSION JOINTS

Existing expansion joints must be retained and continued through the **REC COAT FC 674** flooring system. The joints should be filled and sealed using a suitable flexible joint sealant compatible with the flooring system.

CLEANING

Tools and equipment should be cleaned with REC CLEANER immediately after use.

PACKAGING

REC COAT FC 674 is available in 20 kg unit.

STORAGE

REC COAT FC 674 has a shelf life of 12 months when stored in warehouse conditions below 30°C in the original, unopened packs.

HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. In case of swallowing, seek medical assistance.

QUALITY STATEMENT

All our products are manufactured to comply with our internal QA/QC program and 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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