

REC FLOOR PU 300

HEAVY DUTY POLYURETHANE HYBRID FLOORING SYSTEM

DESCRIPTION

REC FLOOR PU 300 is a unique heavy duty Polyurethane resin floor with exceptional resistance to aggressive chemicals. It provides a smooth protective floor finish suitable for applications in predominantly dry environments. It is dense and impervious, providing the ideal floor finish for applications in the food, pharmaceutical and manufacturing industries including clean room, laboratory, packing hall and warehouse applications and wherever a robust, long-lived floor is required.

PRIMARY APPLICATIONS

REC FLOOR PU 300 is recommended for conditions requiring the maximum chemical resistance and where a smooth, even and easy to clean surface is required. Specific applications include:

- Textile and film plants.
- Food and beverage production.
- Warehousing and storage.
- Confectionery production.
- Electronic component manufacture & assembly.
- Pharmaceutical production.
- Chemical plants.

FEATURES/BENEFITS

- Expert application - installed only by trained and approved specialist contractors.
- Fast application / rapid access - can be applied to 7-day old concrete /2-day old polymer screeds.
- Short curing time - 8-hour access to foot traffic; 24 hours for vehicles.
- Hygienic/Safe - non-tainting, non-dusting, monolithic (minimum joints); easy to maintain; microbiologically inert.
- Durable/long life - wide chemical resistance; wear and impact resistant; resists cleaning temperature up to 80°C at 6 mm thickness and at 4mm to 70 °C; 25 years of international use.
- Pre-packed - pre-weighed/pre-packed for immediate use; batch-to-batch color matched for consistency.
- Colors – Grey, Cream, Yellow, Green, Red, Light Green and Light Grey.

TECHNICAL INFORMATION

Compressive Strength (MPa) (BS6319: Part 2)	48-53
Flexural Strength (MPa) (ISO178)	21 N/mm ²
Compressive Modulus (MPa) (BS6319: Part 6)	3250 – 4000
Tensile Strength (MPa) (ASTM D638)	9
Concrete Adhesion (BS6319:Part2)	Concrete failure
Abrasion Resistance (Taber H 22), (Taber CS17)	1410mg, 120mg
Coeff. Thermal Expansion (ASTM C531)	3.6x10 ⁻⁵ °C ⁻¹
Thermal Conductivity (ASTM C518)	0.9 W/m °C
Slip Resistance	
EN 13036 (4S Rubber)	35
DIN 51130	R10
Surface resistance	2 x 10 ¹¹ ohms

Density (BS 6319: Part)	1970 kg/m ³
Water Adsorption (CP.BM 2/67/2)	0 mL
Fire Testing (EN 13501: Part 1)	BFL – S1
Service temperatures 6mm 4mm	-25°C to 80°C -15°C to 60°C
Samples cured for 28 days at 20°C. The performance data is typical and based upon controlled laboratory conditions. Actual performance on the job site may vary from these values based on actual site conditions.	

CHEMICAL RESISTANCE

REC FLOOR PU 300 offers exceptional resistance to a wide range of chemical aggressors. For example, **REC FLOOR PU 300** is resistant to spillages of the following commonly encountered classes of chemicals:

- Most dilute and concentrated organic acids such as, Acetic Acid, Lactic Acid, Oleic Acid and Citric Acid as commonly found in the food industry.
- Dilute and concentrated acids: hydrochloric, nitric, phosphoric and sulphuric acid.
- Dilute and concentrated alkalis, including sodium hydroxide to 50% concentration
- Animal fats and vegetable oils, sugars flavorings and essences.
- Mineral oils, kerosene, gasoline and brake fluids
- A wide range of organic solvents including Methanol, Xylene, Ethers and Chlorinated solvents.

Note: some staining or discoloration may occur with some chemicals, depending upon the nature of the spill-age and the standards of housekeeping employed.

Extensive chemical resistance tables are available in the separate data sheet 'A guide to the chemical resistance of **REC FLOOR PU 300**. For detailed information, please contact Technical Representatives of Reckon Chemicals PVT Ltd.

SUBSTRATE MOISTURE TOLERANCE

RECKON CHEMICALS PRIVATE LIMITED is extremely tolerant to residual substrate moisture and can be installed directly onto 7-day old concrete, or onto old good quality concretes with high moisture contents without the use of special primers, provided there is a functioning DPM within the structure. This enables rapid construction programs to be maintained and facilitates refurbishment work in wet process areas. Epoxy surface DPMs should not be used as they soften under high temperature conditions and will lead to floor failure.

IMPACT RESISTANCE

With high mechanical strengths and a low elastic modulus, **REC FLOOR PU 300** is very resilient and able to withstand severe impact loads. While no material is indestructible and surface chipping may occur, brittle modes of failure resulting in cracking and debonding are unknown with Reckon floors.

UV RESISTANCE

REC FLOOR PU 300 have been formulated to provide the very highest chemical and heat resistance. UV exposure though not affecting the performance of the **REC FLOOR PU 300** will result in yellowing of the floor which is most apparent in light colors.

DIRECTIONS FOR USE

a. SUBSTRATE QUALITY

Concrete substrates should be visibly dry and have a minimum tensile strength of 1.5 MPa. All joints in the substrate concrete subject to movement should be reflected through the floor and sealed with a suitable sealant For information about application, please obtain a copy of the **REC FLOOR PU 300** Application Manual.

b. PRIMING

REC FLOOR PU 300 shall be applied to a cured scratch coat of 1 mm nominal thickness.

ESTIMATING DATA

REC FLOOR PU 300 should be installed as per the consumption rates given below

Thickness	Consumption
4mm	8 - 10kg/m ²
6mm	12 - 14kg/m ²

PACKAGING

REC FLOOR PU 300 is supplied in multi-component poly kits, consisting of:

Part 1	2.52 kg
Part 2	2.86 kg
Part 3	14.4 kg
Liquid Pigment Part 4	0.5 kg

HEALTH & SAFETY

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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