

REC COAT PU 48

ELASTOMERIC, POLYURETHANE, WATERPROOFING DECK COATING

DESCRIPTION

REC COAT PU 48 is Single component, polyester/aliphatic polyurethane coating that offers outstanding abrasion resistance, excellent flexibility, color stability and weather resistant characteristics. It offers very good chemical resistance without compromising on aesthetics. Ideal as a topcoat for most Reckon Chemical, polyurethane and some masonry coatings, REC COAT PU 48 provides excellent anti-graffiti properties.

PRIMARY APPLICATION

- Airport hangar floors
- Manufacturing plants
- Bridge structures
- Flyovers
- U-Tub Girders
- Laboratories
- Clean rooms
- Warehouses
- Truck/auto repair bays
- Walls/floors

FEATURES/BENIFITS

- Excellent cleanability
- Good chemical resistance
- Anti-graffiti coating

TECHNICAL INFORMATION

Mechanical Properties

Property	Value
Test Temperature	75°F (24°C)
Relative Humidity	50% RH
VOC Content (Clear Gloss, Colors)	335 g/L
VOC Content (Clear Satin)	447 g/L
Viscosity (Mixed)	200 – 600 cP
Mixed Solids (% by Weight)	70% (Colors), 60% (Clear Gloss), 54% (Clear Satin)
Pot Life (1.5-gal Volume)	2 – 4 Hours
Hardness	Shore D 62
Tack-Free Time	4 – 6 Hours
Light Foot Traffic	14 – 24 Hours
Final Cure / Heavy Traffic	3 – 5 Days
Flexibility	Passes 1/8 in. (3.2 mm) Mandrel, No Cracks
Taber Abrasion (CS-17 Wheel, 1000 g Load, 500 Cycles)	22 mg Loss
Impact Resistance (Gardner Impact)	Passes, 160 in-lb.
Appearance	Light Gray, Concrete Gray, Dark Gray, Tile Red, White, Black, Tan, Clear, Light Yellow

Chemical Resistance

Chemical	Rating
Acids	
Acetic Acid (5%)	2
Citric Acid (5%)	3
Hydrochloric Acid (10%)	3
Nitric Acid (5%)	3
Phosphoric Acid (20%)	3
Sulfuric Acid (10%)	3
Solvents	
Ethyl Alcohol (95%)	3
Ethyl Acetate	NR
Methanol	1
Methyl Ethyl Ketone (MEK)	NR
Mineral Spirits	3
Methylene Chloride	NR
Toluene	2
Xylene	3
Trichloroethane	2
Isopropyl Alcohol	1
Miscellaneous	
Detergent Solution	3
Ethylene Glycol	3
Propylene Glycol	3
Vegetable Oil	3
Gasoline	3

Rating Legend

Rating	Description
1	Incidental Contact (Up to 8 Hours)
2	Splash & Spill Resistance (Up to 72 Hours)
3	Extended Exposure Resistance (Up to 7 Days)
D	Discoloration May Occur
NR	Not Resistant

CHARACTERISTICS

Property	Value	Test Standard
Tensile Strength	> 4.1 N/mm ²	ASTM D412
Elongation at Break	> 400%	ASTM D412
Water Vapor Permeability (20°C, 50% RH)	> 25 g/m ² /day	
Tack-Free Time	8 Hours	
Pedestrian Traffic Time	24 Hours	
Final Curing Time	7 Days	
Water Penetration	0.001%	

Gloss and Clear Satin are standard colors. Special or custom colors are available subject to minimum quantity orders.

PACKING

REC COAT PU 48 is packaged in (20 KG) cases.

SHELF-LIFE

One year in original, unopened package.

DIRECTION OF USE

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. See note in "Precautions/Limitations" section if coating is to be placed over old/existing polyurethane coatings. New concrete and masonry Compressive strength must be at least 25N/MM². Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris.

If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralize the substrate. The Concrete Surface Profile (CSP) will be determined by the requirements of the polyurethane coating applied before the REC COAT PU 48 application. Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. A tensile pull tester may be used in accordance with ASTM D 4541, and the tensile pull-off strength should be at least 250 psi (1.7 MPa).

Do not apply polyurethane or urethane coatings if there is excessive moisture in the concrete or if the moisture vapor emission rate (MVER) is high. Before application of the coating, perform the "Vis queen test" (ASTM D 4263) to check if there is moisture present. If moisture is found to be present during the "Vis queen test", perform the "calcium chloride test" (ASTM F 1869) as a follow-up to determine the MVER. Contact Reckon Chemical if results indicate a MVER greater than 3.0 lbs. per 1,000 square feet per 24 hours. After surface preparation and moisture testing, a test section application of the coating system is recommended to confirm good adhesion and compatibility of the coating with the surface, and also to confirm appearance and aesthetics.

Repairing: The concrete surface having pinholes should be repaired with Latex Modified Mortar having mixing Ratio: 2:1 (Cement and Rec SBR). for concrete surface having repair greater than 25mm used Reckon Repair Mortar RECTOP 1002.

Priming: The surface must be primed with REC PRIMER @ 1 KG / m². After application of PRIMER allow the prime coat to dry for 2 to 3 hours.

Application: REC COAT PU 48 can be applied with paint brush, roller, spray gun. Minimum two coats are recommended for better results. For more details, please contact Reckon Chemicals Representative.

PRECAUTIONS/LIMITATIONS

- Keep REC COAT PU 48 away from sparks, open flames, pilot lights, and other sources of ignition.
- Provide adequate ventilation and ensure the use of proper protective and safety equipment during application
- If HVAC intake ducts will distribute solvent odor into adjoining areas of the building, care should be taken to block vents
- Keep REC COAT PU 48 containers closed tightly
- Store REC COAT PU 48 indoors, protected from moisture, at temperatures between 50°F and 90°F (10°C and 32°C)
- Surface and ambient temperature during coating applications should be between 50°F and 90°F (10°C and 32°C)
- Material temperatures should be at least 50°F (10°C) and rising
- Do not apply REC COAT PU 48 if surface temperature is within 5°F (3°C) of the dew point in the work area
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin REC COAT PU 48
- Do not apply REC COAT PU 48 to slabs on grade unless an uninterrupted vapor barrier has been installed under the slab

- Do not apply REC COAT PU 48 if the substrate is subject to excessive moisture vapor drive or hydrostatic pressure
- Depending on the condition of the substrate, minor surface defects can appear in the coating when applied. Proper surface prep, patching of substrate imperfections, and priming will ensure a better overall finish.
- If coating over old/existing epoxy or urethane coatings, or if more than 24 hours elapses between coats: sand the previous coat, wipe clean, and proceed with coating operations. If old/existing coatings are peeling, flaking, etc., all unsound material must be removed prior to new coating applications.
- Application of a test area is recommended to confirm final appearance and texture of the system with the end user
- REC COAT PU 48 is not intended for continuous immersion
- Concrete surfaces may darken and give a “wet look” effect after application
- Excessively high film thicknesses and/or moisture may cause surface blistering
- In all cases, consult the product Safety Data Sheet before use

CLEAN UP

Clean tools and application equipment immediately with acetone, xylene, or MEK. Clean spills or drips with the same solvents while still wet. Hardened REC COAT PU 48 will require mechanical abrasion for removal.

WARRANTY: The Reckon Chemicals (Pvt) Ltd. (Reckon) solely and expressly warrants that its products shall be free from defects in materials and workmanship for one (1) year from the date of purchase. Unless authorized in writing by an officer of Reckon, no other representations or statements made by Reckon or its representatives, in writing or orally, shall alter this warranty. Reckon MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Reckon product fails to conform with this warranty, Reckon will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Reckon does not authorize anyone on its behalf to make any written or oral statements which in any way alter Reckon's installation information or instructions in its product literature or on its packaging labels. Any installation of Reckon products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Reckon's products for the Buyer's intended purposes.

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