

REC COAT 111

VERSATILE, CHEMICALLY RESISTANT, EPOXY FLOOR COATING

DESCRIPTION

REC COAT 111 is a two-component epoxy coating designed to be used for a variety of flooring applications and methods.

PRIMARY APPLICATIONS

- Warehouse and garage floors
- Manufacturing plants, workshops
- Educational facilities and hospitals
- Kitchens, lavatories and showers

FEATURES/BENEFITS

- Versatile – neat coatings, broadcast floors, chip floors, slurry, broadcast and trowel down
- User friendly
- Chemically resistant
- Low modulus • Low odor – 100% solids

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)

Mix Ratio (by Volume). 2:1

VOC Content. < 50 g/L

Gel Time, 200 g, minutes. 35 to 45

Pot Life, 3 gal (11.4 L), minutes.....15 to 25

Tack Free, hrs.....4 to 5

Hardness, Shore D ASTM D 2240. 85 to 90

Tensile Strength, ASTM D 638 psi (MPa). 5,500 to 6,500 (37.9 to 44.8)

Tensile Elongation, ASTM D 638 %.....15 to 30

Compressive Strength, ASTM D 695

Neat resin, psi (MPa) @ 24 hrs.....7,500 (51.7)

@ 7 days. 9,800 (67.6)

Bond Strength ASTM D 4541..... Greater than Concrete

Water Absorption, ASTM D 570

24 hrs.<0.5%

Resistance to Mold Growth Rating:

.....10

ASTM D 3273. No Growth

Resistance to Bacteria GrowthASTM G 22.

.....No Growth

Monolithic Surfacing ASTM C 722.

.....Passes

Abrasion Resistance, ASTM D 4060.....

32 mg loss

Flammability ASTM D 635

Self-Extinguishing.....Max

Available Colors: White, Light Reflective, Clear, Tan, Light Gray, Concrete Gray, Medium Gray, Dark Gray, Black, and Tile Red.

PACKAGING

REC COAT 111 is packaged in (20 kg)

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS/COMPLIANCES

USDA compliant

DIRECTIONS FOR 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 epoxy or urethane coatings. New concrete and masonry must be at least 28 days old. 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. 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. An Elco meter or similar 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 epoxy 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's 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.

Mixing: Mix REC COAT 111 using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 1 minute each. Combine Part A and Part B in a 2 to 1 ratio by volume, then mix thoroughly for 3 to 5 minutes. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing.

Application: Rec Coat 111 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

- Store REC COAT 111 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 111 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 111
- Do not apply REC COAT 111 to slabs on grade unless an uninterrupted vapor barrier has been installed under the slab
- Do not apply REC COAT 111 if the substrate is subject to excessive moisture vapor drive or hydrostatic pressure
- Although REC COAT 111 is chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of a urethane topcoat such as REC COAT PU 48 for improved stain resistance.
- 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
- In all cases, consult the product Safety Data Sheet before use.

COVERAGE

Neat Coating, 20 – 30 mils thick REC COAT 111 (clear), prime coat: 200-225 ft²/gal (4.9-5.5 m²/L) REC COAT 111, 1st coat: 100 ft²/gal (2.5 m²/L) REC COAT 111, 2nd coat: 150 ft²/gal (3.7 m²/L) Aggregate Broadcast Coating, 1/16" - 1/8" thick (1.6 - 3.2 mm) REC COAT 111 (clear), 1st coat: 100 ft²/gal (2.5 m²/L) Broadcast Aggregate: 0.5-1.0 lbs./ft² (2.4-4.9 kg/m²) REC COAT 111, REC FLOOR 41: 100-150 ft²/gal (2.5-3.7 m²/L) or Eucothane: 200-250 ft²/gal (4.9-6.1 m²/L)

Trowel Down Coating, 1/8" - 1/4" thick (3.2 - 6.4 mm) REC COAT 111 (clear), prime coat: 200-225 ft²/gal (4.9-5.5 m²/L) Trowel coat at 1/8" (3.2 mm) thick (mortar) 40 lbs. (18 kg) silica sand 20/40 mesh & 1 gal (3.8 L) REC COAT 111: 40-45 ft²/gal (0.98-1.1 m²/L) REC COAT 111, REC FLOOR 41: 100-150 ft²/gal (2.5-3.7 m²/L) or Eucothane: 200-250 ft²/gal (4.9-6.1 m²/L)

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 111 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 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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