REC PRIME 900

100% SOLIDS EPOXY PRIMER FOR EPOXY AND URETHANE COATING SYSTEMS

DESCRIPTION

REC PRIME 900 is a two-component, 100% solids, penetrating epoxy primer. It is recommended for use as a primer with various Reckon Chemical water-based epoxies, 100% solids epoxies, and urethane coatings.

PRIMARY APPLICATIONS

- Schools
- Warehouses
- Laboratories
- Hospitals
- Clean rooms

FEATURES/BENEFITS

- Fast drying
- Low odor
- Non-flammable
- Low VOC

TECHNICAL INFORMATION

Material Properties @75°F (24°C) and 50%
RHMix ratio (A:B by vol) 1:1
Mixed viscosity, cps 300 to 400
Gel time (100 gms.), mins 30 to 40
Pot life, (7.6L) mins 10 to 20
Mixed solids % by wt 100
Tack free time, hrs 3 to 4
Values presented are typical and not necessarily referenced to create specifications.

PACKAGING

REC PRIME 900 is available in (15.1 L) cases that contain two (7.6 L) kits. It is also available in (37.9 L) units.

SHELF LIFE

2 years in unopened package

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. The Concrete Surface Profile (CSP) should be equal to CSP 2-5 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). 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 elcometer 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 “Visqueen test” (ASTM D 4263) to check if there is moisture present. If moisture is found to be present during the “Visqueen test”, perform the“calcium chloride test” (ASTM F 1869) as a follow-up to determine the MVER. Contact Euclid 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.When coating steel, all contamination should be removed and the steel surface prepared to a “near white” finish (SSPC SP10) using clean, dry blasting media.

Mixing: Mix REC PRIME 900 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 1 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. To keep aeration to a minimum, the recommended mixing paddles are #P1 or #P2 as found in ICRI Guideline 320.5R-2014.

Application: REC PRIME 900 can be applied using a short nap roller, magic trowel/squeegee, brush, or an airless spray. Subsequent epoxy or urethane coatings may be applied as soon as the REC PRIME 900 has become tack free (typically 3 to 4 hours at 75°F (24°C)), but no later than 24 hours after primer application. If more than 24 hours passes between applications, lightly sand the primer, then perform a solvent wipe over the area using acetone. Allow the acetone to fully evaporate before applying the subsequent coating.

PRECAUTIONS/LIMITATIONS

- Store REC PRIME 900 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 PRIME 900 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 PRIME 900
- Do not apply REC PRIME 900 to slabs on grade unless an uninterrupted vapor barrier has been installed under the slab
- Do not apply REC PRIME 900 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 PRIME 900 is not to be used as a finished/aesthetic coating
- REC PRIME 900 may have a yellow cast to the film if applied at higher film builds
- Concrete surfaces may darken and give a “wet look” effect after application
- In all cases, consult the product Safety Data Sheet before use

COVERAGE

200 to 250 ft²/gal (4.9 to 6.1 m²/L)Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

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 PRIME 900 will require mechanical abrasion for removal.