Raven 155

DESCRIPTION
Raven® 155 is a two component waterborne epoxy with ultra-low viscosity.

TYPICAL USES
Formulated for use as a penetrating primer for new and existing concrete and as a polymer additive for use with high-early strength repair mortars to be topcoated with Raven coatings.

COLOR
Off white, milky colored material which dries to a transparent film.

SOLIDS BY VOLUME
As supplied: 71% solids by volume.
Volatile Organic Compounds: 0.0 lbs/gallon

FILM THICKNESS
Raven 155 is a waterborne epoxy and will exhibit shrinkage during drying. Therefore, applied wet film thickness (WFT) and final dry film thickness (DFT) will not be the same. Required WFT may be calculated using the following formula: WFT = desired DFT divided by % solids by volume.

THEORETICAL COVERAGE
At 8 mils WFT coverage is 200 square feet per gallon providing 3 mils DFT at 40% solids. Actual surface coverage will depend on surface irregularities and porosity. Trials are recommended to determine the actual coverage required to yield desired surface saturation. Contact RLS for more details for use as a polymer additive with repair mortars.

APPLICATION METHOD
Brush, squeegee, trowel or hand application or acceptable methods of applying repair mortars utilizing WB as a polymer additive.

THINNING
Thin only with potable water; do not thin below 20% solids by volume. Contact RLS for detailed information.

CLEAN-UP
To clean tools, use soap and water. Part A component may require use of a solvent such as acetone for clean-up. To clean skin, immediately wash thoroughly with soap and water. Refer to the Material Safety Data Sheet for additional information on health and safety.

POT LIFE
45 minutes for 1 gallon at 75°F.
30 minutes for 2 gallons at 75°F.

The amount of pot life and working life will vary depending on the quantity of epoxy mixed, amount of water added, ambient temperature and the container in which the mixed material is held. Contact RLS for additional information.

CURE AND RECOAT TIME
Temperature and relative humidity affect cure and recoat windows of Raven 155. When applied as a concrete primer, at 72 deg F and below 90% RH:

- Tack free in 1 hour
- Dry to touch in 4 hours
- Cure to recoat in 24 hours
- Recoat window 24 hours to 28 days

When using as a polymer additive in repair mortars, cure and recoat properties reflect typical repair material guidelines.

155 typically does not require additional surface preparation treatment prior to topcoat application of Raven coatings, provided contamination of surfaces does not occur.

SURFACE TEMPERATURE
Minimum recommended: 40°F.
Maximum recommended: 120°F.

155 is a waterborne epoxy. Therefore humidity levels below 90% are required to allow the coating to cure through evaporation. Environmental controls and/or sufficient ventilation may be required to attain proper cure.

SURFACE PREPARATION

All contaminants including oil, grease, wax, form release, sealers, salts, or other contaminants must be removed. This may be accomplished through one or a combination of the following methods: detergent water cleaning, hot water (steam) cleaning, and/or solvent cleaning. Detergent cleaning should be followed by thorough rinsing with potable water. Allow surface to dry completely or dry with lint free rags.

Freshly applied Portland (green) concrete should be lightly troweled and allowed to cure until it may be walked on without leaving a mark.

After contaminants have been removed, create a surface profile for adhesion. This can generally be accomplished using high pressure water cleaning, water jetting, abrasive blasting, shotblasting or a combination of methods.

AVAILABLE PACKAGES

Pints and 1-gallon pails. Raven 155 is available through Certified Applicators.

COMPONENTS AND MIX RATIO

Part A, Resin. Part B, Hardener. 1:1 by volume. Contact RLS for details when utilizing 155 as a polymer additive in repair mortars.

VISCOSITY

Part A: 6,000-16,000 cps, Brookfield RVF.
Part B: 200-1,200 cps, Brookfield RVF.

SHELF LIFE AND STORAGE

Shelf Life: 1 year in sealed, unmixed containers at room temperature. Store in a sheltered area between 60°F and 80°F (15°C and 27°C). Do not allow material to freeze or be exposed to freezing temperatures.

SAFETY

Consult the Material Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Material Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Contact RLS to obtain a copy of the Material Safety Data Sheet at 800-324-2810.

www.rls-solutions.com
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