



# Raven 110

## DESCRIPTION

Raven® 110 is a solvent-free, 100% solids, low viscosity epoxy primer or coating that can be applied to dry or damp surfaces.

## TYPICAL USES

Formulated for use as a primer for concrete or masonry surfaces.

## COLOR

Transparent honey-colored material.

## SOLIDS BY VOLUME

100% solids by volume.  
Volatile Organic Compounds: 0.0 lbs/gallon

## FILM THICKNESS

Raven 110 is a 100% solids epoxy with zero shrinkage. Therefore, actual wet film thickness and final dry film thickness are the same (i.e. 5 mils WFT = 5 mils DFT). Generally, 2-5 mils are recommended applied as a primer or sealant.

## THEORETICAL COVERAGE

800 sq. ft. per gallon at 2 mils thickness. Actual surface coverage will depend on surface irregularities. Trials are recommended to determine the actual coverage required to yield a desired film thickness for each individual type of installation. Additional information is available by contacting RLS.

## APPLICATION METHOD

Brush, roller, squeegee, paint pad, conventional or plural component airless or air-assisted spray. For specific information on application, spray system design, approved systems and Certified Applicators, contact RLS.

## THINNING

**Do not thin with solvents;** pinholing and loss of adhesion can result. Material components should not be heated beyond manufacturer's suggested limits. Contact RLS for detailed information.

## CLEAN-UP

To clean tools, use acetone, xylene or MEK. 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

40 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 and temperature of epoxy mixed, ambient temperature and the container in which the mixed material is held. Contact RLS for additional information.

## CURE AND RECOAT TIME

Initial set generally occurs within 8 hours at 70°F. Curing continues for several days, even underwater. When applying multiple coats, no more than 24 hours at 70°F should be permitted to pass between coats. Environmental conditions may shorten this window. Protect surfaces from contamination of any type between coats. Before recoating, inspect, dry and clean surface thoroughly to remove all contaminants, including amine blush and condensation. If the recoat window is missed, clean and abrade surfaces prior to topcoating. For additional information contact RLS.

## SURFACE TEMPERATURE

Minimum recommended: 50°F.  
Maximum recommended: 120°F.

**SURFACE PREPARATION**

Surfaces to receive coating must be cleaned of all oil, grease, rust, scale, deposits and other contaminants. Contact RLS for additional recommendations.

**STEEL** surfaces may require "Solvent Cleaning" (SSPC-SP1) to remove oil, grease and other soluble contaminants. Surfaces to be coated should then be prepared according to SSPC-SP10 or NACE No. 2: "Near White Blast Cleaning". In certain situations, an alternate procedure may be to use high (>5,000 psi) or ultra-high (>10,000 psi) pressure water cleaning or water with sand injection and an approved rust inhibitor.

**CONCRETE AND MASONRY** surfaces can generally be prepared by high pressure water cleaning, abrasive blasting, shotblasting or a combination of methods.

**WOOD** surfaces should have all old, softened or rotten areas removed. The area to be coated should be sanded, then rinsed or cleaned to remove dust and loose particles. Allow the surface to dry thoroughly.

**FIBERGLASS** surfaces should be rinsed and neutralized, scarified and cleaned with water or an emulsion of solvent and water to remove remaining dust and loose particles. Allow the surface to dry thoroughly.

**AVAILABLE PACKAGES**

Pint cans (5 pint kit), 1 gallon pails (5 gallon or 10 gallon kit), 5 gallon pails (100 gallon kit). Packages are sold in multiples of five: 3 of Part A plus 2 of Part B. Raven 110 is available through Certified Applicators.

**COMPONENTS AND MIX RATIO**

Part A, Resin. Part B, Hardener. 3:2 by volume.

**VISCOSITY**

Part B, 450-8,500 cps, Brookfield RVF.  
Part A, 350-750 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).

**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.

**PERFORMANCE TESTING**

DESCRIPTION	METHOD	RESULTS
Compressive Strength	ATM D695	6,900 psi
Hardness, Pencil	ASTM D3363	B-2B
Mandrel Bend Test	ASTM D522 4-9 mil DFT	Passed 1/2" mandrel
Taber Abrasion, CS17 Wheel	ASTM D4060, 1,000 gm load, 1,000 cycles	<80 mg loss
Temperature Resistance		200° F

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