

# Raven 120



## DESCRIPTION

Raven® 120 is a rapid setting solvent-free, 100% solids, low viscosity epoxy primer or coating that can be applied to dry or partially damp surfaces.

## TYPICAL USES

Formulated for use as a penetrating 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 120 is a 100% solids epoxy with zero shrinkage. Therefore, actual wet film thickness and final dry film thickness are the same (i.e. 10 mils WFT = 10 mils DFT). Generally, 1-2 coats at 5-10 mils each are recommended as a primer or sealant.

## THEORETICAL COVERAGE

160 sq. ft. per gallon at 10 mils thickness. Actual surface coverage will depend on surface irregularities. 120 is a penetrating primer that may be rapidly absorbed into the substrate making WFT measurement inaccurate. Material usage may be observed to estimate coverage in these instances. 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.

## 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

20 minutes for 1 gallon at 75°F.  
15 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 2 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: 40°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 (>5,000psi) or ultrahigh (>10,000psi) pressure water cleaning or water with sand injection and an approved rust inhibitor. The anchor profile for surface preparation must be a minimum of 2 mils.

**SURFACE PREPARATION** (continued)

**CONCRETE AND MASONRY** surfaces can generally be prepared by high pressure water cleaning, water jetting, 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.

**COMPONENTS AND MIX RATIO**

Part A, Resin. Part B, Hardener. 2:1 by volume.

**AVAILABLE PACKAGES**

3-quart kit, 3-gallon kits. Kits include components for proper mix ratio. Raven 120 is available through Certified Applicators.

**VISCOSITY**

Part A, 3,000-5,000 cps, Brookfield RVF.  
Part B, 500-1,000 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
Flexural Strength	ASTM D790	11,800 psi
Compressive Strength	ASTM D695	11,600 psi
Tensile Strength	ASTM D638	3,800 psi
Tensile Ultimate Elongation	ASTM D638	1.4%
Hardness, Shore D	ASTM D2240	83

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