



686 S. Adams Street
 Kansas City, KS. 66105
 (918) 615-0020

Raven® 520

Technical Data Sheet

Selection & Specification Data

Description

Raven 520 is a two-part, high solids, UV-Stable, Polyaspartic coating. Raven 520 was designed for use in highly sensitive applications that require minimal odor and maximum protection. Raven 520 adheres very well to properly prepared concrete, steel, aluminum, wood, composites, and many other substrates. Raven 520 can be “rolled” or “sprayed.” Raven 520 displays excellent “hot tire” stain resistance and will cure at temperatures as low as 20°F.

Typical Uses

- UV-Stable Topcoat for aromatic polyurea and polyurethanes
- Commercial Floor Coating
- Industrial Floor Coating
- Kitchen/Food Preparation Areas

Color & Stability (Limitations)

Standard colors: White, Gray, Blue, and Clear. Custom colors available by request.

This product is an aliphatic polyurea. Prior to application, verify that Raven 520 is suitable for the chemical exposure and heat resistance requirement.

Theoretical Coverage Rates

Theoretical coverage is 1604 square feet per gallon at 1 mil DFT. Actual surface coverage will depend on substrate porosity and roughness.

Physical Properties (Typical)

Description	Test Method	Results
VOC	Calculated	0 g/L
Volume Solids	By weight	100%
Viscosity A-Side (75°F) CPS	Brookfield	800-1,100
Viscosity B-Side (75°F) CPS	Brookfield	500-1,000
Process Properties	Units	Results
Pot Life	Minutes	20
Tack Free Time	Minutes	90
Minimum Recoat	Minutes	120
Maximum Recoat	Hours	12

The value ranges stated in this Technical Data Sheet are based on system processing under controlled laboratory conditions. Equipment configuration and/or field application conditions may produce variances in the final system values.



Raven® 520

Technical Data Sheet

Surface & Substrate Preparation	
<p>Prior to coating, the substrate must be prepared in a manner that provides a uniform, clean, sound, neutralized surface suitable for the specified coating. The substrate must be free of all contaminants, such as oil, grease, rust, scale or deposits. In general, coating performance is proportional to the degree of surface preparation.</p> <p>Steel, Atmospheric/Non-Immersion Service:</p> <p>Visible deposits of oil, grease, or other contaminants shall be removed according to SSPC-SP 1 followed by SSPC SP-6/NACE No. 3 Commercial Blast Cleaning, resulting in a sharp angular anchor profile of 2.5-4.0 mils.</p>	<p>Concrete and Masonry</p> <p>Surfaces must be sound and contaminant-free with a surface profile equivalent to a minimum CSP3 to CSP4 in accordance with ICRI Technical Guideline No. 310.2R-2013. This can generally be achieved by abrasive blasting, shot blasting, high pressure water cleaning, water jetting, or a combination of methods.</p>
Application & Equipment Recommendations	
<p>Raven 520 adheres exceptionally well to properly prepared substrates such as steel, aluminum, wood, concrete. Some substrates display much better long-term performance if a primer is used before application. For example, a steel substrate coated with Raven 520 would perform much better in corrosion conditions testing if the steel were prepared before coating with the proper preparation method (i.e., shot blasting), suitable primer (i.e., that includes rust-inhibitive additives), and then top-coated with Raven 520. Contact VersaFlex Technical Service for specific primer recommendations for particular substrates and conditions.</p>	<p>Application Tools</p> <p>Raven 520 can be applied by 1/4" nap roller, 23:1 (Min) Airless or HVLP spray equipment. For spray applications, reduction with up to 20% of MEK, Acetone, Xylene, or toluene. Acetone is VOC exempt and recommended in regulated Air Quality Districts.</p>
Mixing, Thinning, & Pre-Warming	
<p>Components & Mix Ratio</p> <p>Mix ratio is 1:2 by volume.</p> <p>Mixing</p> <p>B Side <u>must</u> be mixed prior to use.</p>	<p>Thinning</p> <p>Reduce up to 20% with MEK, Acetone, Xylene, or Toluene. Acetone is VOC exempt and recommended in regulated Air Quality Districts.</p> <p>Pre-warming</p> <p>A and B components should be warmed to a minimum of 70°F prior to mixing.</p>



Raven® 520

Technical Data Sheet

Clean Up & Safety	
<p>Clean Up</p> <p>Cured product may be disposed of without restriction. The un-cured isocyanate and resin portions should be mixed together and disposed of in a normal manner. “Drip free” containers should be disposed of according to state, local, and federal laws.</p>	<p>Safety</p> <p>SDS’s are available on the website, (www.ravenlining.com) or upon request. Consult the Safety Data Sheet for this product concerning health and safety information before using. Strictly follow all notices on the Safety Data Sheet and container label. If you do not fully understand the notices and procedures provided on the SDS or if you cannot strictly comply with them, do not use this product. Actual safety measures are dependent on application methods and work environment. Keep uncured product away from children at all times.</p>
Packaging, Shelf Life, & Storage	
<p>Available Packaging</p> <p>Raven 520 is available in 3-gallon, 15-gallon, and 165-gallon kits.</p>	<p>Shelf Life</p> <p>Six months in factory delivered, unopened containers, away from extreme heat, freezing, and moisture.</p> <p>Storage</p> <p>Proper storage temperature is between 60°F and 80°F. Ideal material storage temperatures are between 60°F and 95°F. It is recommended to warm the materials to 70°F prior to application.</p>
Warranty	
<p>Limited Warranty. Company warrants its goods to be free of manufacturing defects. Goods manufactured by Company will comply with all applicable federal, state and local laws and regulations. Company makes no warranty as to any parts or equipment manufactured by others. Customer shall look solely and only to the manufacturer of such parts or equipment with respect to any warranty claims. Company hereby assigns to Customer the original manufacturer’s warranties to all such equipment and parts, to the full extent permitted. THE AFORESAID IS THE EXCLUSIVE WARRANTY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. SPECIFICALLY, THERE ARE NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.</p> <p>Limitation of Liability. COMPANY’S LIABILITY FOR DEFECTIVE OR NON-CONFORMING GOODS SHALL BE LIMITED TO, AND SHALL IN NO EVENT EXCEED, THE AMOUNT PAID BY CUSTOMER FOR SUCH DEFECTIVE OR NON-CONFORMING GOODS. UNDER NO CIRCUMSTANCES SHALL COMPANY BE LIABLE FOR ANY SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR LOST PROFITS. In no event may any claim by Customer arising from or relating to any sale of any goods or services referenced herein be brought more than one year after the date of delivery of such Goods.</p>	