



Green Polyurethane™ Indoor& Outdoor Coating

**PIO15-S 6524 (Varnish)
 Application Instructions**

Rev. – May 5, 2016

PIO15-S 6524 – Ultra light stable Varnish is designed for indoor and outdoor application.

Composition	A two-component Hybrid Nonisocyanate Polyurethane coating (HNIPU), Part A (Base) and Part B (Hardener-Uramine 4761): Ratio of Parts: 100A : 32B <i>by weight or</i> 100A : 39B <i>by volume</i>
Mixing	<p>Pre-condition: The PIO15-S 6524 (Varnish) product must rest at + 59-77 °F (+ 15-25 °C) for a minimum 24 hours before using. Once ready to use, thoroughly pre-mix component A and B <u>separately</u> before use. Pre-mix containers with a Jiffy mixer (see Figure 1) for a minimum of 3 minutes until a homogeneous mix with no streaks is achieved. . Recommended speed of stirrer is 300-400 rounds per minute. In the case of big volume containers accurately measure required volume of the parts A and B in separate, clean, graduated, plastic containers.</p> <p>Keep mix batch sizes to 3 gallon or less to allow for adequate time to apply the mixed product within the pot life of the material.</p> <p>PIO15-S 6524 (Varnish) may be packaged into small containers. Therefore component B should be placed directly into container A. Mix the two components together with a Jiffy mixer for 2 minutes. Recommended speed of stirrer is 300-400 rounds per minute.</p> <p>Keep mixing blade submerged to avoid bubbles and pay special attention to the corners. After mixing, immediately pour the entire bucket of mixed material on the floor and begin application.</p>
Surface Preparation and Applying	<p>PIO15-S 6524 is recommended as an Ultra light stable Varnish. The PIO15-S 6524 (Varnish) may be uses as a Top-Coating of Hybrid Nonisocyanate Polyurethane (HNIPU) flooring and as coatings for metal.</p> <p><u>Top-Coating for HNIPU flooring:</u></p> <ol style="list-style-type: none"> 1. Prepare surface by mechanical means such as sandblasting, shot blasting, grinding, etc. Remove any dirt, dust, oil, grease, laitance, rust, scale, paint, or any other contaminants. 2. Apply a thin prime coat of conventional primer used for epoxy or polyurethane systems. 3. Apply the HNIPU coating (e.g. FLIO6W flooring or PIO15W paint) on prepared surface. 4. Apply the Top PIO15-S 6524 (Varnish) on the surface after curing of the coating HNIPU no more 24 hours. The thickness of the Top-coating layer should be up to 4 mils (400 ft²/gal) <p><u>Coating on Metal:</u></p> <ol style="list-style-type: none"> 1. Prepare surface of metal by mechanical means such as sandblasting, grinding, etc. Remove any dirt, dust, oil, grease, rust, scale, paint or any other contaminants 2. Apply a primer used for epoxy or polyurethane systems for metal. 3. Apply the PIO15-S 6524 (Varnish) on the surface after curing of the primer no more 24 hours. 4. The thickness of the layer should be up to 2 mils (200 ft²/gal)

Hybrid Coating Technologies

950 John Daly Blvd., Suite 260 Daly City, CA 94015 ; p. +1. (650)491-3449; f. + 1. (650)755-3362;



Green Polyurethane™ Indoor & Outdoor Coating

PIO15-S 6524 (Varnish) Application Instructions

Rev. – May 5, 2016

Application Methods	Apply the mixed material with a short nap roller or a brush. A spray application may require the use of a thinner. Recommended thinners are: ethoxypropyl acetate, butylene glycol and other conventional thinners using for epoxy base paints. Contact the manufacturer for further application guidelines.
Clean-up and Disposal	Clean skin with soap and water. Immediately clean spillages, equipment and tools with warm water and soap (trisodium phosphate may be used) or with a solvent (e.g. ethanol) whilst the product is still wet. Cured product can only be removed mechanically. Cured product may be disposed of without restriction. Un-cured hardener and resin portions should be mixed together and disposed of in a normal manner.
Storage, Shipping and Handling	Keep in a well-ventilated place in tightly sealed containers. Protect from frost. Keep away from heat, direct sunlight and acids. Store product in a dry location in factory sealed containers at 59 to 90°F (15-32°C). Product shelf life is minimum 6 months in factory-sealed containers. PIO15-S 6524 (Varnish) component A and cured materials are Class 55, not regulated by US DOT shipping regulations. PIO15-S 6524 (Varnish) component B has US DOT Hazard Class 8 (corrosive). Avoid contact with skin and eyes, inhalation of high concentration of vapors. Use only in well ventilated areas. When using do not eat, drink or smoke.
Safety	Refer to Material Safety Data Sheets (MSDS)

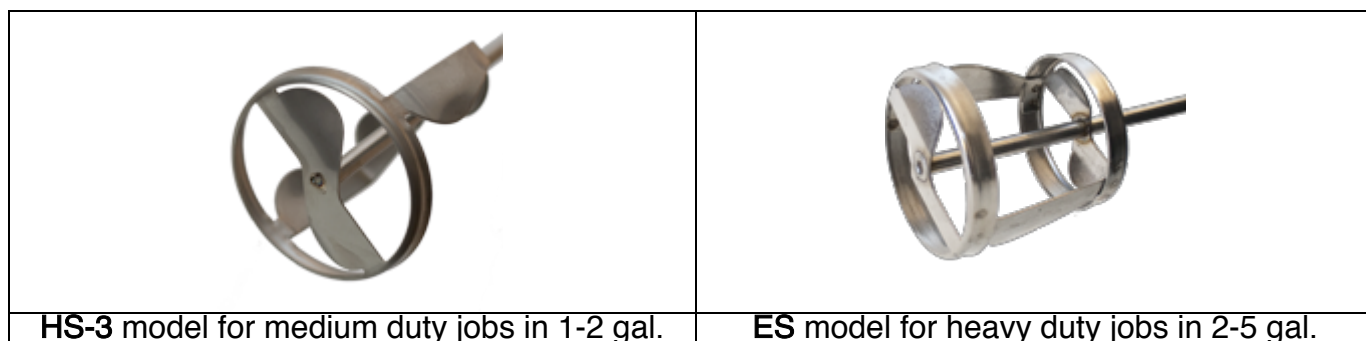


Figure 1. Examples of Jiffy mixers.

Hybrid Coating Technologies

950 John Daly Blvd., Suite 260 Daly City, CA 94015 ; p. +1. (650)491-3449; f. + 1. (650)755-3362;



Green Polyurethane™ Indoor& Outdoor Coating

PIO15-S 6524 (Varnish) Application Instructions

Rev. – May 5, 2016

Limitations		
Substrate temperature	°F (°C)	≥ + 15°C (50°F).
Minimum application temperature. Lower curing temperature option is not recommended.	°F (°C)	+ 15°C (50°F).
Typical application temperature. The higher temperature option is permissible.	°F (°C)	+ 59-77 (+ 15-25)
Humidity of material and curing conditions Note: Do not apply on wet substrate. Do not apply at humidity of environment above 50% R.H	% R.H	≤ 60 % R.H
Pot life at temperature: Note: At higher temperature pot life is reduced.	°F (°C) min	59 (15) 77 (25) 60 30
Curing time at temperature: • Dry-To-Touch Time • Full cure Note: At higher temperature the curing time is reduced.	°F (°C) hours days	59 (15) 77 (25) 6 3 10 7