



## **5120 INSTALLATION GUIDE** Polyaspartic Pigmented Industrial Flooring Topcoat

### **PRODUCT DESCRIPTION**

Versatile Building Products 5120 is a proprietary formula that is designed for speed. 5120 has a potlife up to 30 minutes in real world conditions yet it dries in 30 minutes or less after it is applied to concrete. 5120 will provide an extremely wet look to the concrete due to its ability to dive deep into the concrete surface. Use 5120 as a concrete primer, color coat, and topcoat.

### **PRODUCT COMPOSITION**

- 1) 5120 POLYASPARTIC PIGMENTED INDUSTRIAL FLOORING TOPCOAT – a pigmented deep penetrating fast drying primer/sealer designed to be applied to concrete substrates.

### **COVERAGE RATES AND PACKAGING**

5120 POLYASPARTIC PIGMENTED INDUSTRIAL FLOORING TOPCOAT	250-300 ft/Kit
	Sold as 1 -Gallon Kit
	250-300 ft/Gal

### **SUBSTRATE REQUIREMENTS**

#### ***Concrete***

Concrete shall be structurally sound and stable. Concrete shall be free of dust, dirt, grease, contamination, surface laitance, and other potential bond-breaking substances that could impair adhesion. All cracks, gouges, and other surface defects need to be addressed prior to coating installation. Substrate and ambient temperatures must be above 50°F (10°C) during installation of coating. Relative humidity should not exceed 80% during installation of the coating. Environmental conditions must not be near the dew point during installation of the coating. Moisture Vapor Transmission of the substrate must not exceed 5lb per 1000 ft<sup>2</sup> per 24 hours. For high MVT substrates, consult with a Versatile Building Products representative for recommendations.

#### ***Other Substrates***

Versatile Building Products only recommends its 2 component products for use over concrete. If going over sealed surfaces like polymer stains or other types of sealer **be sure to lightly sand** the surface to **de-gloss it**. Then do a small sample area to check the adhesion before proceeding (do a cross hatch test). All other substrates are done at the users own risk.

### **STEP 1) SURFACE PREPARATION**

(There are many methods of surface preparation for various substrates, many of which are adequate for this application. Consult a Versatile Building Products Representative for alternatives to the procedure outlined below, and methods of correcting problematic and contaminated substrates.)

#### ***Concrete***

Pour water onto the concrete surface. Inspect area to see if water penetrates concrete (concrete will darken). If the concrete allows water to penetrate then proceed to clean the surface using V-100 concrete cleaner degreaser. Use liberal amounts on oils stains and scrub until the water no longer beads on stain (if water still beads on oil then burn it off using a small torch and then prime entire area with 4100 epoxy primer as listed in the 4100 install guide). If water beads when doing the penetration test then the following additional preparation will be needed. Concrete must be mechanically profiled and prepared by shot-blasting, grinding, water-jetting, or other means of scarification to produce a Concrete Surface Profile (CSP) between #2 and #3, according to International Concrete Repair Institute (ICRI) Guideline No. 03732.

## **STEP 2) INSTALLATION OF 5120 PRIMER**

Note: Material has a pot-life of 30 minutes based on an insulated 200 gram mass at a starting temperature of 77°F. Unlike epoxy, the 5120 will have a longer potlife if the material is left in the pail so pour out what will be needed only as needed. ***Expect a 30 minute potlife when working with a 2 gal mas at normal temperature. Warning: Unlike Epoxy, this Polyurea material has a long potlife in the container than on the floor (it dries quick when in a thin film).***

### ***Preparation***

- Shut off all sources of ignition prior to work and ground all equipment throughout the sealing process.
- Supply auxiliary ventilation as necessary to produce a safe working environment.
- This material causes light headedness, use a NIOSH approved carbon filter respirator capable of filtering organic vapors.

### ***Mixing***

Use 3 bucket mixing: Using a jiffy-type mixing blade at a minimum of 700 rpm, mix according to ratio listed on label of the 5120 A-Component with 5120 B-Component for two minutes. Mix for two minutes and transfer mix to a second mixing vessel and mix for an additional minute (transferring to a second mixing vessel prevents unmixed components clinging to the sides of the first mixing container from being poured onto the floor.)

### ***Application***

Begin by cutting-in the concrete footings and edges with a brush. Pour a band of the mixed 5120 material out onto the floor and begin rolling with a 1/4-3/8" nap roller. Work the material evenly to a wet film thickness of 4-5 mils (250-300 ft/gallon). Try and work within the control or expansion joints usually found on concrete floors. Allow the 5120 to dry to a slightly tacky state before proceeding to the next step. Following coats should be applied within 30 minutes of being tack free or light sanding may be needed to de-gloss the film. If the floor goes beyond tacky and is hard then it will need to be sanded to scuff it up so subsequent coats stick to it. Remember this system is designed for speed so don't take a long break after applying the 5120. You can also use a fingernail test; if it is fairly difficult to leave a fingernail imprint then you must sand or screen the surface before applying another coat.

### ***Cure Times***

Allow 5120 to become tacky before recoating, if necessary. Recoating after 30 minutes may require de-glossing of the surface by use of a floor buffer. Area may be opened to light foot traffic in 2-3 hours depending on environmental conditions. Area may be opened to light vehicular traffic in 12-24 hours depending on environmental conditions.

Pilot lights and surrounding sources of ignition may be put back into service once solvent vapors have dissipated to a level below the lower explosion limit. Typically, this will take 3-6 hours after floor installation with adequate ventilation.

### ***Clean Up***

Immediately cleanup splatter marks and tools with Acetone. Clean hands and exposed skin with mild soap and water, and/or citrus based hand-cleaner.

## **ADDITIONAL CAUTIONS AND RECOMENDATIONS**

- Do not force dry any components of the Roll On Rock™ system.
- Coverage rates may vary.
- Mask all areas that need protection.
- Always wear protective clothing and equipment as required by OSHA and as needed for good safety practices.
- Read Material Safety Data Sheets before commencing work.
- Use spiked shoes when walking into wet material while broadcasting the flakes.
- Use an 18-inch roller to help speed the application and uniformity of material.
- Be sure to cross-roll and back-roll the topcoats to ensure a uniform coat.
- Do not allow material to puddle.
- Use accelerators when installing in cold climates or the return to service time needs to be fast tracked.
- Turn off all sources of ignition if working with 5073 topcoat and follow safety guidelines listed in p