



4001 with 5400 High Performance Clear Topcoat Installation Guide

PRODUCT DESCRIPTION

4001 is a 2 component waterborne epoxy primer/sealer designed to improve the adhesion of coating systems to concrete and previously sealed surfaces or provide a breathable “Wet Look” seal over new or old concrete surfaces. 4001 is suitable for use over green concrete, and substrates with high moisture vapor emissions. 5400 is a Chemical Resistant Waterborne Urethane that exhibits excellent wear and U.V. Stability. The film build, gloss and chemical resistance are comparable to solvent based systems, yet without the intense odor associated with them or the high V.O.C. levels. 5400 is designed for use over concrete, stone, epoxy and other various substrates to protect against wear and chemical attack. The 4001 and 5400 combination is an ideal High Performance Coating System for use over stained concrete floors or any other decorative concrete floor that may be subject to heavy foot traffic or light automobile traffic. It is also suitable for exterior use when the proper coverage rates are followed for 4001 on exterior surfaces.

COVERAGE RATES AND PACKAGING

4001 Primer	350 ft/gal 700 ft/kit Interior 450 ft/gal 900 ft/kit Exterior	Sold as 2.0 Gallon Kit Or 5 Gallon Bulk
5400	375 ft/Kit 250 ft/Gal	Sold in 1.5-Gallon Unitized Kit

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. Concrete may need to be mechanically profiled and prepared by shot-blasting, grinding, or other means of scarification so that it has surface profile equal to at least a 150 grit sandpaper. Substrate and ambient temperatures must be above 50°F (10°C), and not exceed 95°F (35°C) during installation of primer. Environmental conditions must not be near the dew point during installation of the primer or subsequent coatings and toppings.

Other Substrates

Consult with a Versatile Building Products representative for recommendations over other substrates.

STEP 1) INSTALLATION OF 4001

(Note: Dry time is effected by environmental conditions. Do not force dry. Pot-life of material is 2 hours at 70F. Mixed material will not gel.)

Mixing

Mix 1 part by volume 4001 A-Component with 1 part by volume 4001 B-Component for 2-3 minutes using a jiffy-type mixing blade at no less than 400rpm. Transfer 4001 to a second mixing vessel and mix an additional 30 seconds to ensure that material along the sides of the first mixing vessel have been properly incorporated into the mixture. ***This is a 2-component product be sure to mix thoroughly.***

Do not apply material in extreme heat, best results are achieved when temperatures are below 80 degrees. Apply mixture to the substrate using a soft bristle push broom, brush, roller, or squeegee at a coverage rate of 350ft per mixed gallon inside and 450 sq ft per gallon when used outside. Do not puddle material. Allow material to dry to a clear film. Subsequent coats must be applied as soon as the film goes clear and within 1 hour of it going clear otherwise surface de-glossing with sand paper or buffing pads will be required. Additional coats may be necessary over highly porous concrete. Be sure to maintain a wet edge in order to avoid streaking or flashing of primer. ***Do not use material after 2 hour pot life, material applied after 2 hour pot life will turn white when dry.***

Application Over Concrete as a Primer

Apply mixture to the substrate using a soft bristle push broom, brush, roller, or squeegee at a coverage rate of 350ft per mixed gallon. Do not puddle material. Apply subsequent toppings and coatings in accordance with the manufacturer's instructions. Typical coat-over windows are as follows, but will vary with the product:

5400 As soon as it goes clear and no longer than 1 hour after going clear

STEP 2) INSTALLATION OF 5400

(Note: Cure time is effected by environmental conditions. Do not force dry. Material has a pot-life of 180 minutes based on an insulated 200 gram mass at a starting temperature of 70°F. ***Warning: Large masses of mixed and/or heated material will have a shorter pot-life.***)

Mixing

Mix 2 parts by volume 5400 A-Component with 1 part by volume 5400 B-Component for 2-3 minutes using a jiffy-type mixing blade at no less than 400rpm. Transfer mixed material to a second mixing vessel and mix an additional 30 seconds to ensure that material along the sides of the first mixing vessel have been properly incorporated into the mixture. ***This is a 2-component product be sure to mix thoroughly.***

Application

Apply mixture to the substrate using a brush, roller, or squeegee at a uniform coverage rate of 180/240 ft per mixed gallon. Use spiked shoes when walking into wet material.

Cure Times

Coating can typically accept light foot traffic in 16-24 hours, vehicular traffic with pneumatic tires in 96 hours.

STEP 2) CLEANUP

Immediately cleanup splatter marks with water. Clean tools with mild soap and water before primer dries.

ADDITIONAL APPLICATION INFORMATION

The floor will not reach full cure for 5-7 days, and should be protected from chemical attack and spillage by applying a protective wax.

ADDITIONAL CAUTIONS AND RECOMENDATIONS

- The use of air fans to circulate air will speed the dry to touch time
- Do not use material after 2 hour pot life, material applied after 2 hour pot life will dry white.
- Do not apply in extreme heat or chance of uneven dark spots may.
- Coverage rates may vary due to porosity of surface.
- Mask all areas that need protection.
- Always wear protective clothing and equipment as required by OSHA and as necessary.
- Read Material Safety Data Sheets before commencing work.
- Use spiked shoes or cleats when walking into wet material.