

# POLY-STAR 50

## 450 Gram/Liter VOC Polyurethane Concrete Finish

Poly-Star 50 is a superior oil-modified urethane that is formulated for use as a finish on all interior concrete surfaces. Easy to handle and with excellent leveling characteristics, Poly-Star 50 dries at room temperature in approximately 5-7 hours under normal drying conditions to a hard, glossy film, which exhibits excellent resistance to abrasion, wearing, and chemicals. This product is Federal 450 grams/liter VOC emissions law compliant.



### APPLICATION & MAINTENANCE

If the composition or origin of an existing finish is unknown, it is strongly recommended that a test patch be applied to determine compatibility and adequate adhesion characteristics. Applying Poly Star 50 to floors with a temperature lower than 65°F will result in extended drying and curing times, and should be avoided.

**NEW FLOORS:** Concrete floors should be allowed to cure a minimum of thirty days. Floor surfaces must be free of any release agents, curing compounds, salts or efflorescence before coating.

**APPLICATION TO BARE CONCRETE:** Floor surface temperature should be at least 65°F prior to application of finish. Areas with soaked in oil, automotive fluids or grease should be spot cleaned first with #820 Citru-Gest. Scrub surface with #156 Deep Impact or #255 Wood Glow to remove regular concentrations of light oils soils and dirt. Lightly dampened the surface with clean water then etch with #111E Prepare. Allow Prepare to work until foaming stops then rinse thoroughly with clean water. When thoroughly dry (12-24 hours), apply Poly Star 50 in a *thin, even coat*, with a lamb's wool, T/Drag Bar or other appropriate applicator. The initial coat will yield 450-550 square feet per gallon coverage. Allow finish to thoroughly dry, minimum 5 to 7 hours under normal drying conditions. Apply no more than one coat per day. Cold floor temperatures or high humidity can significantly increase drying time. Under warm, low humidity conditions, floors may be opened to light traffic after 36 hours. Adverse drying conditions will extend the amount of time necessary before opening the floor to traffic. Complete curing requires 5-7 days.

**PREVIOUSLY SEALED FLOORS IN GOOD CONDITION:** Clean heavily soiled floors thoroughly per previous instruction. Allow the floor to dry, then screen with an 100-120 grit screen disk. Wet screening using a solution of #255 Wood Glow diluted 4 ounces per gallon of water, will reduce dusting and clean the floor. Floors may also be dry screened. Dry screening can be more effective at removing deeper scratches and heavy oxidation. Thoroughly sweep or vacuum the floor to remove wood dust and dirt. Tack rag the floor with Waterless Cleaner to remove any fine dirt or dust left from screening.

**APPLYING THE FINISH:** Apply finish only after floor is thoroughly clean and dry. Apply finish with a lamb's wool applicator, brush or weighted drag/t-bar. Pour finish into an applicator pan if applying with a lamb's wool or brush, or a plastic watering can for application with a drag/t-bar. Apply finish in a **thin**, uniform coat. Generally, two coats is necessary to provide a positive appearance and performance in recoating procedures. Under warm, low humidity conditions allow a minimum of 5-7 hours between coats. Apply no more than one coat per day. Cold floor temperatures or high humidity can significantly increase drying time. Under warm, low humidity conditions, floors may be opened to light traffic after 36 hours. Adverse drying conditions will extend the amount of time necessary before opening the floor to traffic. Complete curing requires 5-7 days.

**BUFFING BETWEEN COATS:** Floors may be screened between coats with a 120 grit or finer screen to ensure adhesion and to remove raised grains in wood and provide a smoother finished appearance. Sweep or vacuum the floor to remove large quantities of wood and urethane dust. Tack rag floor with Waterless Cleaner to remove fine dust. Allow floor to dry thoroughly, then apply the next coat.

## SPECIFICATIONS

Color	1 - 3 / Gardner
Solids	50% minimum
Weight Per Gallon	7.2-7.3
Hardness	40 / Sward
Viscosity	A-1 / Gardner
Solvents	Mineral Spirits
Flash Point	105°F minimum
Dry Time	Tack free-5 hours
Water Resistant	24 hours-No effect
Alcohol	1 hour-No effect
Gasoline	24 hours-No effect
Caustic 5%	2 hours-No effect
Soap Resistance	24 hours-No effect
Slip Resistance	(ASTM F-609) 0.5 Minimum
Coverage	400 - 600 Ft. <sup>2</sup> /Gallon
VOC	<450 grams/liter

## SAFETY INFORMATION

Health	1
Flammability	2
Reactivity	0
Personal Protection	B

**WARNING:** Harmful if swallowed or inhaled! COMBUSTIBLE, Flash Pt. 40°C (103°F). Long term exposure may cause lung damage. Contains Stoddard Solvent CAS #8052-41-3. Avoid breathing vapors or mist. Use with adequate ventilation. Keep away from heat and flame. Keep container closed. For complete information consult MSDS sheet. Dispose of empty containers safely. **For professional use only. Keep out of reach of children.** Possible Organ Effects: Eyes, Respiratory System, Skin.



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