



exceptional floor finishes

Synteko Floor Finishes
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TECHNICAL DATA SHEET

SYNTEKO POLYURETHANE PRO-SERIES - 1664, 1665, 1666

Synteko Polyurethane Pro-Series is a high quality, professional, oil urethane floor finish designed for commercial or residential interior hardwood floors. Synteko Polyurethane gives a special warm and classic look, delivering a tough, durable film that protects against scuffing, marring, household chemicals and wear-and-tear. Synteko Polyurethane is self-sealing, has excellent workability and comes in three gloss levels: 1664 Matte 35, 1665 Semi-gloss 50 & 1666 Gloss 90.

FEATURES

- High solids (49-51%)
- Gloss is MFMA approved
- Excellent viscosity
- Self Sealing
- Offers multiple applications

BENEFITS

- More film build; less coats needed (2 coats vs. 3 coats)
- Can be used on all gym floors
- Flow & leveling with all floor applicators
- No sanding sealer needed
- Can be used for commercial & residential use

PREPARATION

New, Unfinished and Previously Finished Floors

Machine sand the surface (following NOFMA, MWFA and MFMA guidelines) to remove dirt, irregularities and/or any previously applied finish. Final sanding/screening should take place with 100 to 120 grit sandpaper or screen. Vacuum thoroughly and dry tack after sanding.

Previously Finished Floors – Recoat

Previously finished floors (Polyurethane or conversion varnish only) must first be cleaned from all dirt, grease, polish, oily substances or soap residue. Clean thoroughly with Synteko Heavy Duty Soap and an abrasive scrubbing/conditioning pad. Follow label instructions on the Synteko Heavy Duty Soap. Allow to dry completely. Follow by screening the substrate thoroughly, until completely matte using a used 120 grit screen or a maroon, conditioning pad with 180 grit abrasive strips. Vacuum thoroughly and tack the screened floor with pure mineral spirits or a water-moistened cloth.

Notes: Do NOT apply Synteko Polyurethane over waxed floors or when the floor was finished with waterborne, UV cured or aluminum oxide finishes, oil, shellac, lacquers or stains containing wax or stearates. Prior to recoating previously finished floors, it is always recommended to perform an adhesion test. First, locate a small area (like a corner) and clean/screen as previously recommended. Next, apply a coat of Synteko Polyurethane and allow to cure for at least one week. Now, scrape with the edge of a coin, if the finish loosens, adhesion is poor and complete removal is recommended in this case.

Conditions: Allow the Synteko Polyurethane to adjust to room temperature before use.

Floor/Air temperature: Maintain between 60°F and 77°F (15 and 25°C).

Provide good ventilation after the application to improve the drying and curing. Avoid direct hot sunlight and drafts over the finished surface during application, cover windows if needed. Prior to application stir up the product well to disperse any settled flattening agents using a wide stir stick.

APPLICATION AND INTERMEDIATE SANDING

If staining is required, first use a stain that is specifically made for wood floors, follow manufacturer's instructions. Allow the stain to dry completely. Apply two to three coats of Synteko Polyurethane using a lambswool applicator, weighted T-bar, high quality natural bristle brush or short nap (1/4"-3/8") roller. Apply each coat at the recommended spread rate at 500 to 600 sq.ft/gallon. Allow at least six to eight hours drying time between the first coat and the second coat, overnight if a third coat is required. Abrade well between coats using a used 120 to 150 grit screen or use a maroon pad with 180 grit sandpaper strips. If the previous coat was applied longer than 24 hours ago make sure to abrade very well to a complete

dull surface! Vacuum thoroughly and tack with pure mineral spirits or a water moistened cloth between each coat.
Previously Coated Floors – Screen & Recoat: Apply one coat of Synteko Polyurethane. A second coat may be applied if the previous coating shows heavy wear.

CARE AND MAINTENANCE

Use throw rugs, (walk off mats) at all entry doorways to trap debris. Hardwood floors finishes with Synteko Polyurethane are easy to clean. To keep the surface clean, sweep, dust mop and/or vacuum as necessary. Periodically damp mop with Synteko Super Clean on a well-wrung cloth or Synteko Microfiber Mop. (Follow label instruction for best results). Avoid scrubbing with coarse/abrasive brush or strong detergents. The finished floor may be walked on carefully after 24 hours drying, wait 3 days before replacing furniture and at least 1-2 weeks before putting down area rugs. Attach new felt pads to the legs of chairs and tables so as not to scratch the finish surface.

TECHNICAL DATA

Type:	One component Oil Modified Urethane (OMU)	
Description & Color:	Dark blue/purple liquid (dries clear, slightly amber)	
Solids content:	Approximately 49 ~ 51%	ASTM D1644 method A
Density:	7.45 ~ 7.55 lbs/gallon	ASTM 1475
Viscosity:	Approximately 90~100 cps @23°C	ASTM D2196-86
Flash point:	111 ~ 115°F (44–46°C)	ASTM 3278-96
Coverage:	500 to 600 sq.ft/gallon	
VOC:	Does not exceed 450 grams/ltr	ASTM D2369-98
Dry times:	16 ~ 24 hours	
Hardness:	75 ~ 85 sec. (König pendulum)	ASTM D4366-95 method A
Gloss levels:	Gloss 90, Semi-gloss 50, Matte 35	
Abrasion resistance:	Excellent	ASTM D4060-95
Resistance to chemicals:	Very good resistance to water and common household chemicals/cleaners	
Storage life:	24 months in original package stored away from excessive heat/sunlight	
Clean up:	Mineral Spirits	

PRECAUTIONS

Heavy applications or applications during humid or low temperatures will increase the dry and curing times, apply at the recommended spread rate. Always ventilate adequately. After the final coat, allow at least 24 hours drying time before light traffic, and 72 hours before allowing heavier traffic and placing furniture. Area rugs and throw rugs (walk-off-mats) can be placed after approximately 14 days of curing. Do not use water or detergents for the first 14 days after the last coat is applied. Polyurethane will have an amber effect when applied over light colored surfaces.

DISCLAIMER

Our information is based on laboratory tests and is considered a guide in connection with choice of product and working method. As your working conditions are beyond our control, we do not assume any responsibility for the results. Our responsibility exclusively covers personal injury and damage to property, which actually have been proved subsequent to faults and defects in one of the products manufactured by us. Date 07/08

