Synteko Floor Finishes
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exceptional floor finishes

TECHNICAL DATA SHEET

SYNTEKO CLASSIC 1636, 1637, 1646

Synteko Classic is a fast drying, two-component, acid curing conversion varnish, hardwood floor finish based on modified amino and alkyd resins in a solvent mixture. Synteko Classic delivers an extremely durable, long lasting beautiful finish and is ideally suited for surfaces subjected to extremely heavy wear. MAIN USES: Finishing of hardwood floors in residential as well as in commercial areas. Synteko Classic is self-sealing and it's excellent workability and fast drying time provides the benefit of one day job completion. Synteko Classic is suited for all wood species including exotic hardwoods, and is available in 1636 Matte 35, 1637 Semi-gloss 50, 1646 Gloss 90 and Hardener 1647.

FEATURES

- High Solids
- Quick dry
- Superior hardness
- Scratch & wear resistance
- Commercial & residential use
- Self sealing

BENEFITS

- 2 coat finishing system
- 2 coats completed in one day
- Long term durability
- Long lasting beauty
- One product for both applications
- No sanding sealer needed

PREPARATION

New, Unfinished or Previously Finished Floors
Machine sand the surface (following NOFMA, NWFA and MFMA guidelines) to remove old finish and impurities from the wood. Final sanding or screening should take place with 100-120 grit. Vacuum thoroughly and dry tack after sanding.
Previous Finished Floors – Recoats
First clean the floor thoroughly with Synteko Heavy Duty Soap (follow label instructions). Next screen the floor until completely matte by using a used 120 grit screen. Vacuum and tack thoroughly after sanding. **Note:** Surfaces previously finished with polyurethane or waterborne finish cannot be recoated with Synteko Classic.

CONDITIONS:	During use, the finish should be at room temperature
Floor and air temperature:	Maintain between 15 and 25°C (60 and 77°F)

Provide for good ventilation during the first coat to improve the drying. Second and third applications should be made with normal ventilation, as drafts over the finished surface create unfavorable drying conditions. Avoid direct hot sunlight on the floor during finishing to prevent lap marks, cover windows if needed.
Note: Extinguish pilot lights and don't activate light switches during application and drying period of Synteko Classic.
Oily and resinous wood species should be coated with the first coat of Synteko Classic as soon as possible (within 2 hours after sanding) after the sanding/screening is completed.

MIXING AND POT LIFE

Shake both Synteko Classic and Hardener 1647 well before mixing them together.
Mix 1 part of Synteko Hardener 1647 to 10 parts of Synteko Classic and stir/mix this mixture well and allow to sit for 5-10 minutes before use. Once mixed with Synteko Hardener 1647, Synteko Classic should be used within 8 hours provided that the mixture is stored in a closed container. Leftover catalyzed product may be used up to 24 hours as a base coat.
Note: When large floors are to be coated with Synteko Classic, or when it is hot and/or dry, flow and leveling can be improved by using Synteko Retarder 1670 in the last coat of Synteko Classic, a 5-10% addition of Retarder 1670 is recommended.

APPLICATION

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 **Note:** Pine with large proportion of heartwood has a tendency to become reddish in color in combination with acid-curing finishes. Contact the Synteko Technical Department for further information on avoiding this discoloration. Porous wood species like pine, spruce and beech may require three coats of finish, where as most other wood species normally require two coats. After the preparation of the surface, and mixing of the product, application of

the first coat of finish can take place with brush, short nap roller (1/4 -3/8 inch) or applicator. Roller application has proven to be giving the most satisfying and controllable results. After drying, screen with a used 120-150 grit screen or use a maroon conditioning pad with 180 grit sandpaper strips. Then vacuum thoroughly, tack with a damp cloth and apply the second coat. If a third coat is required, follow the same abrasion procedure as between the first and second coat

PRECAUTION

Extinguish pilot lights and don't activate light switches during application and dry time of Synteko Classic. Oily and resinous wood species should be coated with the first coat of Synteko Classic as soon as possible after the sanding/screening is completed. Pine with large proportion of heartwood has a tendency to become reddish in color in combination with acid-curing finishes

CARE AND MAINTENANCE

A wooden floor finished with Synteko Classic dries within approximately 4 hours depending on the conditions. Good ventilation during and after the curing process removes the solvent and the formaldehyde fumes. As soon as the floor can be walked on (usually within 4 hours) start to ventilate the area by opening windows a bit. After the application (during ventilation) remain out of the room for at least 8 hours. Furniture can be replaced after 24 hours. Wait a week before replacing rugs. For the first 4 weeks after finish application, the floor should be handled with care, and not be cleaned with water or detergent, as the finish has not completely hardened through. After approx, 2 months the water and chemical resistance is very high, however the surface should not be exposed to water or moisture for long periods.

A hardwood floor finished with Synteko Classic is 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 a coarse brush or strong detergents. Remove spots with mineral spirits or a similar product. Heel marks should be removed immediately with Synteko Heavy Duty Soap or mineral spirits. Attach new felt pads to the legs of chairs and tables and other furniture so as not to scratch the finish of the surface.

TECHNICAL DATA

Type:	Two-component acid-curing solvent borne floor finish based on alkyd and amino resins	
Description & Color:	Light yellow/amber liquid	
Solids content:	Approximately 48%	*ASTM D1644 method A*
Density:	8.20 ~ 8.3 lbs/gallon	*ASTM 1475*
Viscosity:	Approximately 28 seconds @23ºC F4 cup	
Solvent:	Ethanol, Propylene glycol mono-methyl ether, methoxypropanol	
Flash point:	18-20ºC (64-68ºF)	*ASTM 3278-96*
Coverage:	285 – 300 sq.ft/gallon depending on method of application and porosity of the wood.	
VOC:	Does not exceed 550 grams/ltr	*ASTM D2369-98*
Dry times:	1 ~ 3 hours	
Hardness:	120 ~ 140 sec. (König pendulum)	*ASTM D4366-95 method A*
Gloss levels:	Gloss > 90, semi-gloss 50 ~ 55, matte 20 ~ 25	
Abrasion resistance:	Very good	*ASTM D4060-95*
Resistance to chemicals:	Very good resistance to water and common household chemicals/cleaners	
Pot life:	Product should be applied within 8 hours after incorporation of hardener	
Storage life:	24 months in original package stored away from excessive heat/sunlight	
Clean Up:	Lacquer thinner	

SAFETY PRECAUTIONS

Contains: ethanol, ethylglycol, methoxypropanol
Fire classification: Highly flammable. Irritating to skin, eyes, and respiratory system. Keep container closed in a well ventilated place. Do not eat, drink or smoke during use. In case of contact with eyes, rinse immediately with plenty of water and consult a physician. Wear suitable gloves & proper respiratory protection. Do not empty into drains. Take precautionary measures against static discharges. Extinguish pilot lights and do not operate light switches. **Keep out of reach of children.** Refer to MSDS sheet for further information.