

Best

Waterborne



Synteko Best is a two-component, extremely durable water based, low-odor hardwood floor finish for use in high traffic and commercial areas. Synteko Best comes in three gloss levels: Matte 1643, Semi-Gloss 1644, and Gloss 1645. Synteko Best gives maximum resistance to wear, scratching, scuffing, marring and chemicals. It is therefore ideal for surfaces subjected to unusually heavy wear. Synteko Best can be used on untreated or previously finished surfaces. Oily and resinous wood species such as teak should be coated as soon as possible after machine sanding.

- 2 component water based floor finish for high traffic and commercial areas
- Compatible with our water based Synteko Sealmaster
- Polyaziridine-free cross-linker
- Easy to apply
- Excellent wear, scratch and scuff resistance
- Available in matte, semi-gloss and gloss



DIRECTIONS FOR USE

We strongly recommend using Synteko Sealmaster 1600 for the first coat on bare wood. Synteko Best can be applied over the other product range of Synteko floor finishes, but must not be covered with solvent based finishes. Synteko Best should always be mixed with Synteko Hardener 1648 (see mixing instructions below).

PREPARATION OF UNFINISHED FLOORS OR FLOORS WHERE OLD FINISH MUST BE REMOVED

Sanding

Machine sand (following NOFMA, NWFA and MFMA guidelines) the surface to remove old finishes and impurities in the wood. The initial sanding is done with coarse grit sandpaper and high roller pressure. The final sanding should take place with 120-150 grit sandpaper or screen using the lowest possible roller pressure. If too much roller pressure is applied during the final sanding, the soft springwood may be compressed. When moisture from the Synteko Sealmaster 1600 affects such compressed soft springwood it would swell back to its original volume resulting in an obvious rise in the surface. Oily and resinous wood species such as teak must be sealed immediately after sanding. Vacuum cleaning must be done before application. Do not forget to remove dust on baseboards, window sills, radiators, etc.

Sealing

Sealing is done with the water borne Synteko Sealmaster 1600 (applicator or brush application). During use, the sealer must be at room temperature. Further important factors are: Temperature of floor must be between 15 and 25 °C (60 to 77 °F). Floor moisture contents of wood must be between 5 and 15%. When sealing in normal climates, provide good ventilation. This accelerates drying, saves time and reduces grain raising. In hot, dry climates, reduce ventilation, if drying becomes too quick. Further aspects regarding sealing are covered by the technical data sheet for Synteko Sealmaster 1600. Follow the instructions given there. **Note:** Stained floors should not be sealed but finished directly with Synteko Best. Sanding of Sealer before finishing: Synteko Sealmaster 1600 dries within 60-90 minutes. The floors should be dry to a transparent clear color and powder well when abraded smooth. Vacuum well before finishing and tack with a water dampened towel or rag.

Mixing and pot-life

Add the complete contents of a bottle of Hardener 1648 to a gallon of Synteko Best. When smaller quantities are needed mix a total of 5% (1:20 ratio) of Hardener 1648 to Synteko Best. Shake mixture thoroughly for at least 1 minute. The container must be kept open after the addition and mixing of hardener. Immediately begin to thoroughly mix the Hardener/finish mixture upon adding the Hardener to the finish. Let the mixture stand for at least 5-10 minutes before use, allowing air bubbles to surface. Finish mixed with hardener must be used within 4-5 hours.

Finishing

After sealing, abrading, and thoroughly vacuuming and tacking the floor, as well as the surroundings, finishing with Synteko Best may take place. During use, Synteko Best must be at room temperature. Preferably, the temperature of the floor should be between 15 and 25°C (60 and 77°F). The moisture content of the floor must be between 5 and 15%. The system for uncoated wood floors is 1 coat Synteko Sealmaster followed by 2 coats Synteko Best. In heavy wear areas a third coat of Synteko Best may be applied. Work gently with the brush, applicator or roller, thus minimizing the amount of air mixed into the finish. Be careful in corners and other places where finish may be applied in increased amounts. Use a smaller brush in such areas. If the relative humidity of the air is high and/or the temperature is low, reduce the amount of finish used. If the humidity of the air is low and/or the air temperature is high, increase the amount of finish used. Always avoid direct sunlight on floor. This may heat the floor too much and result in the finish drying too quickly. When using applicator, use the "snow plow" method (angled blade) in a continuous, steady motion. When the whole surface has been completely finished, leave the doors ajar. Avoid direct air drafts over the surface of the floor. Normal airflow is sufficient for the drying of the finish. Between coats of Synteko Best allow at least 4-6 hours drying. However, do not apply more than two coats per day (sealer and/or finish) in order to allow the finish to dry and cure properly.

Note: After completion of the application, allow the moisture to evaporate and the finish to cure one week before laying rugs or floor coverings.

RE-FINISHING OF PREVIOUSLY FINISHED FLOORS

To re-finish a previously finished floor, the surface must be completely free from grease, wax, polish, etc. If the surface has been treated with wax, all old finish must be removed by proper sanding to ensure good adhesion. Prior to coating the whole floor check first for good adhesion, clean and abrade a small area, next apply the finish. After drying and curing, the adhesion should be tested by scraping with the edge of a coin. If the finish layer loosens, the adhesion is poor and a complete removal of all old surface layers is necessary. For all re-finishing, the rule is that the surface must be free from dirt, grease and other contamination. First clean with Synteko Heavy Duty Soap and then wipe with a solution of 10% vinegar in 90% water. Screen with a used 120-150 grit or abrade/buff with a maroon pad and 180 grit sandpaper. Vacuum clean thoroughly. Apply one or two coats of Synteko Best. Do not apply more than one coat a day.

TREATMENT OF FACTORY FINISHED FLOORS

To improve wear in high traffic areas, an extra layer of Synteko Best can be applied to a pre finished floor. First, sand or screen the floor using a very fine sand paper or screen (180-240 grit). Screen the surface until it has turned matte. Vacuum thoroughly, and tack the surface with a damp clean cloth to completely remove all the dust.

CARE AND MAINTENANCE

The floor can be used with caution 24 hour after the last coat is applied. Heavy furniture or rugs should not be placed or laid for at least one week. Make sure to install protective pads on the bottom of furniture (chair legs, etc.). Do not clean floor with water or detergents during the first month. Surfaces treated with Synteko Best are easy to keep clean. Vacuum regularly, and when necessary, damp mop with Synteko Super Clean on a well-wrung cloth or Synteko Microfiber Mop is normally adequate. Marks from rubber heels, shoe polish, lipstick, ink, etc. should be removed immediately with mineral spirits.

TECHNICAL DATA

Base Material: Water based polyurethane polymer dispersion
Color: Milky white
Consistency: Low viscosity liquid
Solids Content: Approximately. 33%
Density: Approximately. 1025 kg/m³ (8.5 lbs/gal)
Viscosity: Approximately. 25 sec. (FC-4) at 23°C (73°F)
pH: Approximately. 8
Solvent: Water
Flash Point: 100°C (212°F)
Hardener: Isocyanate cross-linker diluted in dipropylene glycol dimethyl ether and water

ENVIRONMENTAL DATA

Synteko Best is water based and VOC compliant. General safety precautions should be taken with handling any chemical product. Ensure good air circulation and ventilation during use. US Synteko Hardener 1648 is the hardener to be used with Synteko Best (1643, 1644, and 1645). Always use caution when handling hardener. Avoid splashing. Wearing disposable polyethylene gloves and protective goggles is strongly recommended. Keep out of reach of children. Refer to MSDS sheet for further information.

OTHER DATA

Tools: Brush, roller or floor applicator
Coverage: 285 to 610 sq.ft/gal
(Depending on tools and wood species)
Drying times: 60 to 90 minutes for sealer coat
4 to 6 hours for subsequent coats over sealer or previously finished floors

Crack Formation

Cold Check Test (-20°C/+ 50°C) (-4°F/+ 122°F): No crack formation after 25 cycles

Abrasion resistance

SIS 923509: Approximately. 3.1 mg/100 revs
Scuff resistance: No marks at 4 kp/cm² (58 psi)
Gloss gardner 60°: Approximately. 90 for Gloss
Approximately. 45 for Semi-Gloss
Approximately. 20 for Matte

Resistance to

chemicals: Very good resistance to grease, standing water, and household chemicals

Storage life:

Storage conditions: 12 months in closed containers
Do not expose to temperatures below +5°C (+40°F) and above +30°C (+86°F)
Protect from freezing!

Note: Use all hardener within 24 hours after it has been opened.

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 covers exclusively 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: 5/02