



Product information

SYNTEKO BEST

matte 1643, semi-gloss 1644, gloss 1645

GENERAL DESCRIPTION

Synteko Best is a two-component, waterborne, low-odour hardwood floor finish for use in high traffic and commercial areas. Synteko Best gives maximum resistance to wear, scratching, scuffing, marring and chemicals. It is therefore ideal for surfaces subjected to heavy wear. Synteko Best comes in three gloss levels.

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. We recommend using Synteko Sealmaster 1600 or Synteko Sealer 1601 for the first coat on bare wood (please see separate Product information).

Note: Synteko Best and Synteko Hardener 1648 must be mixed before use (see mixing instructions below and please read separate Product information for more detailed information on Synteko Hardener 1648). Shake well before use! Stained floors should not be sealed but finished directly with Synteko Best. Waterborne floor finishes must not be covered with solventborne finishes. Wood that has been chemically treated or mechanically compressed can not be finished with waterborne finishes.

TECHNICAL DATA

Base material	Waterborne polyurethane/acrylic polymer dispersion
Solids content	Approx. 33%
Density	Approx. 1040 kg/m ³ (8,68 lb/gal US) (10,42 lb/gal UK)
Viscosity	Approx. 23 sec. (SIS 18 41 15)
pH	Approx. 8
Fire hazards	Non-flammable
Hardener	Polyisocyanate diluted in dipropylenglycoldimethylether
Coverage	* 7-15 m ² /l
Drying time	Sealer coat: Approx. 1 hour at 23°C (73°F)/50% RH Second coat: Approx. 4 to 6 hours at 23°C (73°F)/50% RH Further coats: Approx. 4 to 6 hours at 23°C (73°F)/50% RH
Abrasion resistance	Approx. 3.1 mg/100 revs. (SIS 92 35 09)
Scuff resistance	No marks at 4 kp/cm ²
Gloss	Approx. 90 for Gloss (measured at 60°) Approx. 45 for Semi-Gloss Approx. 20 for Matte
Resistance to chemicals	Very good resistance to grease, standing water, and household chemicals
Shelf life	12 months in unopened container
Storage	Store frost-free. Must be stored between +10°C (+50°F) and +30°C (+86°F)
Tools	Applicator, brush or roller
Cleaning	Clean tools with water immediately after use

* Depending on tools and wood species

DIRECTIONS FOR USE

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

Sanding

Sand floors using accepted MFMA, NWFA or NOFMA procedures (US).

Machine sand the surface to remove old treatments and impurities in the wood. The first sanding is made with coarse sandpaper and high roller pressure. Make the floor surface as level as possible. If the floor is uneven in spots, sand locally to even out these areas.

The final sanding is made with 120-150 grit sandpaper or screen, and with the lowest possible roller pressure. If roller pressure is too high, the soft springwood may be compressed. When moisture from the finish affects such softwood, it will raise the grain of the floor by swelling back to its original volume.

Important! Vacuum and tack the floor before applying Synteko Best. Do not forget to remove dust on skirtings, windowsills, radiators, etc.

Sealing

The first coat is intended to seal the wood. Do not apply to heavy coat on less absorbing kind of wood. During use, the sealer must have a temperature of approx. 23°C (73°F). Further important factors are:

Floor temperature:	must be between	15 and 25°C (60 to 77°F)
Floor moisture content:	must be between	5 and 15%

Do not allow puddles of finish to remain on the floor. If the sealer is poured onto the floor from the container, it must be spread as quickly as possible to prevent the wood from absorbing too much water.

When sealing, it is practical to have as good ventilation as possible. This will help accelerate the drying time and reduce grain raising. In hot and dry climates, reduce ventilation in order to avoid too quick drying and risk of lap marks.

For intermediate sanding use a used 120 grit screen or paper or a new 150 grit.

Important! Vacuum and tack the floor before applying Synteko Best. Do not forget to remove dust on skirtings, windowsills, radiators, etc.

Mixing and pot-life

Add 5% or total contents of Hardener 1648 to a full container of Synteko Best. Immediately begin to shake in order to mix in the hardener into the finish and shake it for at least 15 seconds. Let the mixture stand five minutes before use, allowing air bubbles to surface.

Finish mixed with hardener must be used within 2 hours. The container must be kept open after addition of hardener.

Finishing

Work gently with the brush 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 sunshine on the floor, which may heat the hardwood resulting in too quick drying.

When using an applicator, use the "snow plow" method in continuous, steady movements.

When the whole surface has been completed, leave doors ajar. Avoid direct air drafts over the surface of the floor. Normal airflow is sufficient for the drying of the finish.

If further coats are desired, let the finish dry for 4 to 6 hours and repeat the sanding, vacuum cleaning and application procedures as mentioned above. However, do not apply more than two coats per day (sealer and/or finish) in order to allow the finish to dry and cure as soon as possible.

Note: After completion of the application, allow the moisture to evaporate for one week before laying rugs. The surface must not be covered with non-porous protective materials. Tape must not be used on waterborne finishes.

RE-FINISHING OF PREVIOUSLY FINISHED FLOORS

To re-finish a previously finished floor, the surface must be completely free from grease, wax, polishes, etc.

If the surface has been treated with wax, sand to bare wood removing all of the old finish ensuring good adhesion.

Before re-finishing clean with Synteko Remover 1692, then clean with 10% vinegar in 90% water to remove all residues of grease, polishes, etc. and finally wipe the floor with pure water. Sand or screen with a used 120 or 150 grit to obtain a matte surface, and vacuum clean thoroughly. Apply one or two coats of Synteko Best. Do not apply more than one coat a day.

When the surface has been screened, an adhesion test should be done. First, a small area is coated with finish. After it has dried, scraping the area with the edge of a coin tests the adhesion. If the finish layer loosens, it did not adhere correctly, and complete sanding to bare wood is necessary.

TREATMENT OF UV-CURED FLOOR FINISHES

An extra layer of Synteko Best can be applied to a pre finished, UV-cured, floor. First, sand or screen the floor using a very fine paper (180-240 grit) or an abrasive pad. 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 8 hours after the last coat is applied. Furniture can be placed after 24 hours and rugs after one week. Do not clean floor with water or detergents during the first month.

Surfaces treated with Synteko Best are easy to keep clean. Vacuum cleaning and, if necessary, mopping with a Synteko Super Clean 1697 solution and a well wrung cloth is normally sufficient. Marks from rubber heels, shoe polish, lipstick, ink, etc. should be removed immediately with Synteko Remover 1692 or with mineral spirits. Avoid scrubbing with coarse brush or strong detergents.

Periodic use of Synteko Newshine 1696 in high traffic areas will help to protect the floor. Synteko Newshine 1696 can also be used to restore light scratch marks. Attach felt pads to the legs of chairs and tables in order to avoid scratching the finish.

HEALTH & SAFETY INFORMATION

Detailed information and guidance is provided in our MSDS (Material Safety Data Sheet). The following only represents a selection of important information.

Keep out of reach of children. Safety data sheet available for professional user on request.



Akzo Nobel Decorative Coatings AB
Synteko Floor Finishes
SE-205 17 Malmö, Sweden
Phone: +46 40 355000
www.synteko.com
Email: info@synteko.com



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: 2004-04-07