

## SYNTEKO EXTRA 1K/ 2K

Extra matt (5), matt (20), semi-gloss (45)



Synteko Extra 1K/2K is a universal 100% PU waterborne floor finish for solid timber floors and parquet. Adding optional Hardener 1648 makes it suitable for heavy traffic floors. EC1/ EC2 compliant.

**AREA OF USE:** for all kind of high traffic and commercial areas like offices, shops, etc.

### PRODUCT PROPERTIES:

- professional's preferable product performance
- optimal wet time in difficult conditions
- excellent levelling
- low VOC, only 60 g/L (max 75 g/L while mixed with Hardener)
- very strong and durable surface
- excellent friction
- very resistance to scratching, scuffing, chemicals and liquids
- non-yellowing surface

### COVERAGE:

- 8–11 m<sup>2</sup>/l, depending on tools and wood species.

### TOOLS:

- Applicator with mohair felt, approx. 5 mm pile high, 300-500 mm width
- Roller with synthetic material approx 8-10 mm pile high
- Clean tools with water immediately after use.

### ATTENTION!

- 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.
- Oily and resinous wood species such as teak should be coated immediately after machine sanding.
- Tape must not be used on waterborne finishes.
- All finishes should be shaken before use. Do this before vacuuming so that the air mixed into the finish during shaking has a few minutes to escape before use.
- Do not apply more than two coats per day (sealer and/or finish).
- Direct sunlight should be blocked, also avoid too high or low temperature and humidity
- The finish should be at room temperature when applied. If the finish is too cold, it flows much less freely and also releases air poorly, which can result in brush stroke marks and air bubbles remaining after drying. It takes about seven hours to warm the lacquer from 0°C to 20°C.

### TECHNICAL DATA:

BASE MATERIAL	Waterborne 100% polyurethane dispersion
HARDENER	Polyisocyanate diluted in dipropylenglycoldimethylether
SOLIDS CONTENT	ca. 32% (ISO 3251 )
PH	ca. 8,0
VISCOSITY	ca. 21 sec. (ISO 2431 )
DENSITY	ca. 1,05 kg/l
SCUFF RESISTANCE	No marks at 5 kp/cm <sup>2</sup>
GLOSS (measured at 60°)	<ul style="list-style-type: none"><li>• Ca. 5 for extra matte</li><li>• ca. 20 for matte,</li><li>• ca. 45 for semi-gloss,</li></ul>
DRYING TIME at 20°C /50% RH	<ul style="list-style-type: none"><li>• 1-2 hours first coat</li><li>• 2-3 hours each following coat</li><li>• Final strength after 3 days</li></ul>
POT LIFE OF MIXTURE	ca. 4 hours at 23°C
STORAGE	Store frost-free. Must be stored between +10°C and +30°C
SELF LIFE	12 months in unopened container from production date (s. package)
PACKAGE SIZE	4.76 L

### DURING APPLICATION

- The finish should be at room temperature of approx. 23°C.
- Floor temperature must be between 15 and 25°C.
- Floor moisture content must be between 5 and 15%
- Humidity must be 50 – 60 % RH

### BEFORE USING THE FLOOR

- The floor can be used with caution 24 hours after the last coat is applied.
- Furniture can be placed after 24 hours.
- Allow the moisture to evaporate for minimum three days before laying rugs.
- Do not clean floor with water or detergents during the first month.
- Attach felt pads to the legs of chairs and tables in order to avoid scratching the finish.
- The surface must not be covered with non-porous protective materials.

# SYNTEKO EXTRA 1K/2K

## DIRECTIONS FOR USE



### FLOORS WHERE OLD FINISH MUST BE REMOVED

- Sand the surface back to bare wood, removing any dirt and unevenness.
- For the last sanding use 120-150 grit paper. Vacuum well and tack with a damp cloth.
- For the best result, apply Synteko SEALMASTER or SEALER as the first coat on the bare wood (see separate product information).
- After drying, when the surface obtains an even color, light sanding with 150 grit screen/paper should take place. Vacuum thoroughly.
- Apply Synteko EXTRA 1K/2K with an applicator or roller.
- Do not apply more than two coats per day (sealer and/or finish).
- One coat of sealer and 2-3 coats of finish are recommended.
- Make the floor surface as even 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 100 grit 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.
- Vacuum and tack the floor before applying the finish. Do not forget to remove dust on skirtings, windowsills, radiators, etc.

#### MIXING WITH HARDENER AND POT-LIFE (in case of 2K use)

- Synteko Extra 1K/2K and Synteko Hardener 1648 must be mixed before use (read separate Product information for more detailed information on Synteko Hardener 1648).
- Add 5% or total contents of Hardener 1648 to a full container of Synteko Extra 1K/2KT.
- Immediately begin to shake in order to mix in the hardener into the finish. Shake it for at least 30 seconds.
- Let the mixture stand 5 minutes before use in open canister allowing air bubbles to surface.
- Finish mixed with hardener must be used within 4 hours.
- The container must be kept open after addition of hardener.
- Shake well before use!

### II RE-FINISHING OF PREVIOUSLY FINISHED FLOORS

#### PREPARATION

- An absolute requirement for re-finish or touching up a previously finished surface is that it is free of grease, polish or similar substances.
- If the floor has been waxed, it should be sanded well down to bare wood prior to finishing.
- If the floor has been treated with polish, an adhesion test must be carried out. 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.
- Before re-finishing clean with Synteko REMOVER
- 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 150 grit or finer to obtain a matte surface.
- Vacuum clean thoroughly.

#### FINISHING

- Apply 2-3 coats of Synteko EXTRA 1K/2K. Do not cover the surface until it is completely dried.
- Work gently with the applicator or roller, thus minimizing the amount of air mixed into the finish. When using an applicator, use the "snow plow" method in continuous, steady movements.
- Be careful in corners and other places where finish may be applied in increased amounts. Use a smaller brush in such areas.

#### GENERAL RECOMMENDATION

- 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 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 2 to 4 hours and if necessary do the intermediate sanding, use a screen or paper 150 grit, vacuum cleaning and apply the finish as described 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. If the floor has been drying more than 24 hours, intermediate sanding is necessary.
- Please note that sanding of earlier layer becomes difficult after 3rd day – it is caused by ceramic particles providing extra scratch resistance

# SYNTEKO WATERBASED FINISHES CARE AND MAINTENANCE



Surfaces treated with Synteko floor finishes 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 can also be used to restore light scratch marks.

## HOW DO I USE SUPER CLEAN 1697?

1. Vacuum or mop the floor to remove any dirt.
2. Prepare Synteko SUPER CLEAN as follows:
  - For normal cleaning, 1 part Synteko SUPER CLEAN to 50 parts water
  - For heavy cleaning, 2–3 parts Synteko SUPER CLEAN to 50 parts water
3. First, pour the water into a bucket. Never pour water directly onto a wood floor.
4. Dip a soft cloth or a sponge mop into the mixture and wring thoroughly before cleaning the floor.
5. Superclean is designed for use also with Spray Mop Kit Synteko SUPER CLEAN is suitable for wet mops and combi-machines.

## HOW DO I USE NEWSHINE 1696?

1. Before applying Synteko NEWSHINE make sure that the floor is clean.
2. Sweep, mop or vacuum the floor.
3. Old soap, grease, polish etc. should be removed by washing with water and Synteko REMOVER.
4. Apply Synteko NEWSHINE in a thin, even layer using a damp mop or a non-flocculent cloth. Usage of Spray Mop Kit is possible.
5. Leave the floor to dry for app. 30 minutes before walking on it.

## HOW DO I USE REMOVER 1692?

1. Vacuum or mop the floor to remove any dirt.
2. Prepare Synteko REMOVER as follows:
  - For normal cleaning, ½ - 1 part Synteko REMOVER to 100 parts water
  - For heavy cleaning, 2–3 parts Synteko REMOVER to 100 parts water
3. Soak a cloth in the mixture; do not pour it directly onto the floor.
4. Wet mop, let the mixture act for a few minutes and then dry mop. Usage of Spray Mop Kit is possible.
5. Further cleaning with 1 part vinegar to 9 parts water is recommended if sanding and recoating is to be done.
6. The floor must be completely dry before screening and recoating.

## HEALTH & SAFETY INFORMATION

FOR PROFESSIONAL USE ONLY! Detailed information and guidance is provided in our MSDS (Material Safety Data Sheet) [www.synteko.com](http://www.synteko.com). The following only represents a selection of important information.

**Note:** Keep out of reach of children. If medical advice is needed, have product container or label at hand. Do not get in eyes, on skin, or on clothing. Call a POISON CENTER or doctor/physician if you feel unwell. Dispose of contents and container in accordance with all local, regional, national or international regulations. Contains 1,2-benzisothiazol-3(2H)-one [EC no. 220-120-9]. May cause an allergic reaction.

EU limit value for this product (cat. A/j): 140 g/l (2007) / 140 g/l (2010). This product (A+B mix) contains max 75 g/l VOC.

*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.*

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Sweden, Tel. +46 303 563 30  
[www.synteko.com](http://www.synteko.com)

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# SYNTEKO HARDENER 1648



## AREA OF USE:

Synteko Hardener 1648 is a crosslinker intended for use only in combination with Synteko ZERO, Synteko NOVA BEST or Synteko EXTRA 1K/2K, a two-component, waterborne, low-odour hardwood floor finishes for use in high traffic and commercial areas.

## MIXING AND POT-LIFE

Add 5% or total contents of Synteko Hardener 1648 to a full container of Synteko ZERO, Synteko NOVA BEST or EXTRA 1K/2K. Immediately begin to shake in order to mix in the hardener into the finish and shake it for at least 30 seconds. Let the mixture stand five minutes before use, allowing air bubbles to surface. Finish mixed with hardener must be used within 4 hours. The container must be kept open after addition of hardener.

## TECHNICAL DATA:

Base material	Polyisocyanate diluted in dipropyleneglycoldimethylether
Solids content	ca. 70%
Density	ca. 1080 kg/m <sup>3</sup> (ISO 2811-1) / (8,68 lb/gal US) (10,42 lb/gal UK)
Fire hazards	Not flammable
Storage	Store frost-free. Must be stored between +10°C (+50°F) and +30°C (+86°F)
Self life	18 months in unopened container from production date (s. package)
Package size	0,24 L

## HEALTH & SAFETY INFORMATION

Safety data sheet available for professional user on request. Detailed information and guidance is provided in our MSDS (Material Safety Data Sheet) [www.synteko.com](http://www.synteko.com). The following only represents a selection of important information.



**Warning.** Harmful if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. Harmful to aquatic life with long lasting effects. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Avoid breathing vapour. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Store locked up. Dispose of contents and container in accordance with all local, regional, national or international regulations. Hazardous ingredients: Hexane, 1,6-diisocyanato-, homopolymer, polyethylene glycol mono-Me ether-blocked hexamethylene-di-isocyanate. Contains isocyanates. May produce an allergic reaction.

*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.*

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