

SYNTEKO ZERO 2K

full-matt



Synteko Zero 2K floor finish is a full- matt waterborne 100% PU finish for wood and parquet floors in heavy traffic areas. Unique composition of its raw materials allows it to be called as „bio- based“ product. As by new technology, product is fortified with ceramics based on our unique Small Particles Technology. Synteko ZERO 2K is exceptionally durable to scratches, heel marks and ordinary household chemicals. Synteko ZERO 2K is „invisible“ after application which corresponds to markets desire for natural look of finished floors. Added ceramic particles make Synteko ZERO 2K even more environmentally friendly and low VOC. Groundbraking purity of product and its composition allows its usage as „invisible“ top coat of Synteko Solid Max 2K oil. Latter provides opportunity to combine oil enhanced look combined with „invisible“ protection of surface.

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

TECHNICAL DATA:

SPECIAL INGREDIENT	Bio- based, ceramic silica
RECOMMENDED USE	Heavy commercial; indoor use only
GLOSS LEVELS	Genuine full-matte 2 (Gardner 60)
ADDITIONAL FEATURES	Ceramic fortified, NMP free
VOC	EU: 49g /l (83 g /l-when mixed with hardener) (EU limit value for this product (cat. A/i): 140 g/l (2010) 2004/42/CE
SOLIDS BY VOLUME	32%
pH	Approx. 8
APPROX. WEIGHT/ DENSITY	1.10 g/cm ³ ; 1.10 kg/l
ODOUR	Very light, non-offending
SAFETY/TOXICITY	Non-hazardous / Not classified
COVERAGE	8-11 m ² / l or 95-131g/m ² with roller
FLOW AND LEVELING	Exceptional
COLOR	Wet: milky white, clear and invisible when dry
DRYING TIME	20°C/ 68°F (RH 50%) 30-60min on bare wood; following coats: 2-4 hours. Fully cured latest after 3 days.
PACKAGING	EU: Carton of 1 x 4,5 litre can + hardener
STORAGE AND TRANSPORT	1 year from date of manufacture in unopened original container at 41F (5°C) to 77F (25°C). Keep from freezing!
SHELF LIFE	See expiration date on canister.
CHEMICAL RESISTANCE	Resistant to grease, water and ordinary household cleaners and detergents
CLEANING OF TOOLS	Thoroughly clean all application tools with water, right after using.
DISPOSAL	Never pour surplus finish down the drains. Dispose it in accordance to local regulations.
MAINTENANCE	To keep the floor looking its best, clean and maintain floor using Synteko Superclean and Newshine, following application instructions. Do not clean the floor before it is fully cured.

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.
- Stained floors should not be sealed but finished directly with Synteko waterborne top finishes.
- 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).
- If possible 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.

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 one week 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 ZERO 2K

DIRECTIONS FOR USE



I FINISHING OF UNFINISHED FLOORS OR FLOORS WHERE OLD FINISH MUST BE REMOVED

1. PREPARATION

- The surface has to be sanded to a professional standard, dry and free from contamination.
- Protect the floor from direct sunlight and keep off all underfloor heating from day before application till 24 hours after application.
- Final sanding of the floor should be done with sanding paper 120 grit belt or 100 grit screen.
- The temperature of the floor, Synteko Hardener, Synteko ZERO 2K finish and air must be between 13°C (55°F) and 25°C (77°F).
- Relative humidity of the room should be between 40% and 60%. Higher humidity of room extends drying time of finish thus waiting time between layers.

2. PRIMING

- Use Synteko SEALMASTER or SEALER for priming (read separate Product Information).
- The first coat is intended to seal the wood. Do not apply to heavy coat on less absorbing kind of wood.
- 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.
- Wait until the wood has an even colour tone before performing intermediate sanding. For intermediate sanding use a screen or paper 150 grit or finer.
- Vacuum and tack the floor before applying Synteko top coats. Do not forget to remove dust on skirtings, windowsills, radiators, etc.

3. MIXING AND POT-LIFE

- Synteko ZERO 2K and Synteko Hardener 1648 must be mixed before use (read separate Product information for more detailed information on Synteko Hardener 1648).
- Mix the content in the can with 10% hardener, shake it for 1 minute and let it start to react for 10 minutes.
- Do not dilute the finish!
- The mixture must be used within 4 hours.
- Mix Synteko Zero and hardener only one time and not more than you need to apply for one coat.

NOTE! Make sure solvent-based stains and sealers- if used to enhance colour of wood- are fully cured prior to over-coating with Synteko ZERO 2K.

4. FINISHING

- Application of the finish should be carried out along the direction of parquet strips and wood.
- If possible, do not apply the finish cross the direction of daylight.
- Windows/doors must be closed to prevent air flow and ventilation should be shut down for the time of application.
- If possible prevent direct sunshine on the floor during coating.
- Synteko ZERO 2K is suitable for application with a lightweight t-bar applicator, roller or brush.
- Always test the product on a smaller area to ensure colour and adhesion.
- For best results on bare, unstained wood floor, always use Synteko ZERO 2K finish with Synteko primers, following label instructions.

- Recommended method of application with a 10mm roller: 2 layers of Synteko ZERO 2K on a Synteko Sealmaster or Sealer.
- Apply sufficient amount of product in order to ensure good levelling of roller/ applicator marks.
- Sanding between layers is always possible.

If you have any questions, do not hesitate to contact the floor supplier or Synteko.

II RE-FINISHING OF PREVIOUSLY FINISHED FLOORS

1. 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 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.

2. FINISHING

- Apply one or two coats of Synteko waterbased top finish following instructions described in chapter I.
- Do not apply more than one coat a day.

III TREATMENT OF UV-CURED FLOOR FINISHES

1. PREPARATION

- 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.
- 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

2. FINISHING

- Apply one or two coats of Synteko waterbased top finish following instructions described in chapter I.

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.

Synteko SUPER CLEAN is suitable for wet mops and combimachines.

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.
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.
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. 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 and 2,4,7,9-tetramethyl-5-decyne-4,7-diol. May cause an allergic reaction. Safety data sheet available on request.

EU limit value for this product (cat. A/j): 140 g/l (2007) / 140 g/l (2010). This product (A+B mix) contains max 72 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.

Producer:
Synteko AB, Sweden
www.synteko.com

Date: 04.12.2014

SYNTEKO STAR, NOVA BEST & ZERO 2K HARDENER 1648



AREA OF USE:

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

TECHNICAL DATA:

Base material	Polyisocyanate diluted in dipropyleneglycoldimethylether
Solids content	ca. 70%
Density	ca. 1080 kg/m ³ (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	12 months in unopened container from production date (s. package)
Package size	0,24 L (available only together with finish)

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. 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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