

SiOO:X PREMIUM WOOD PROTECTION
& SURFACE PROTECTION

Deck

FOR DURABLE, SUBTLE, SILVER-GREY
WOOD SURFACES

LASTS UP TO

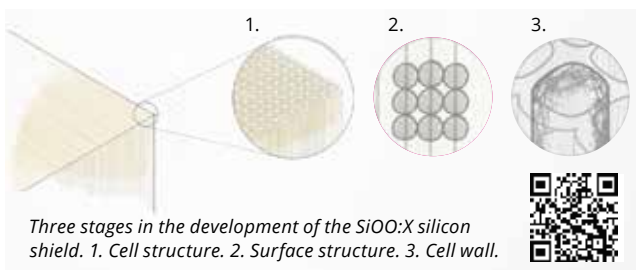
12
years

SiOO:X
WOOD PROTECTION

INNOVATIVE, ENVIRONMENTALLY ADAPTED WOOD PROTECTION

SiOO:X wood protection products are water-based and designed for minimal environmental impact. The result is fresh, natural-looking wood surfaces that last for a very long time. The appearance changes gradually over time due to natural variations. SiOO:X is based on a unique, patented silicon-potassium formulation. The products penetrate and are naturally integrated into the wood. They then create a silicon shield (see image below) that strengthens and protects the wood from the inside out, providing unique multi-protection.

This means you can use the products on most species of wood that are suitable for decks, on both old and new surfaces.



Three stages in the development of the SiOO:X silicon shield. 1. Cell structure. 2. Surface structure. 3. Cell wall.

MAIN ADVANTAGES¹

- Up to 12 years durability
- Produces an attractive, subtle, pale silver-grey wood surface
- Reduces occurrence of mould and algae
- Protects against rot
- Water-based, low environmental impact
- Binds CO₂
- Easy to maintain

Mineralizes and strengthens the wood, resulting in:

- Dirt and water repellence
- UV protection and less blackening of the wood surface
- Less cracking and splintering
- Vapor-permeability (the wood breathes)
- Stronger wood with a longer lifespan

APPLICATIONS: Works on all species of wood suitable for outdoor decks, including old and new wood², on condition that the recommended pre-treatment and instructions are followed. Suitable for decking, jetties, pressure-treated screens and outdoor furniture, etc. Pressure treatment gives the longest lifespan.

¹ See sioox.com for tests and reports, information on the sustainability of different species of wood and specialist articles. Lifetime of up to 12 years applies to step 1 – SiOO:X Premium Wood Protection Deck on pressure-treated wood. Information about product properties is based on compliance with Sioo's recommendations and national building standards.

² New pressure-treated wood can be treated as soon as it feels dry. New heart pine should be left for a year before applying base

Photo top center @appelbacken. Pressure-treated decking treated with SiOO:X Premium Deck, photo after one year. Cover photo: SiOO:X-treated deck, pressure-treated decking, photo after 4 years. @susantornqvist.



SiOO:X PREMIUM WOOD PROTECTION/ SURFACE PROTECTION DECK

SiOO:X wood protection system for decks consists of two steps: a wood-protecting base coat and a supplementary finish coat. Together they penetrate and form a strong interface with the wood. This ensures long durability and turns the wood a natural shade of silver-grey.

Step 1. SiOO:X Premium Wood Protection Deck – penetrates, strengthens and protects the wood for up to 12 years¹.

Step 2. SiOO:X Premium Surface Protection Deck – fixes the treatment and forms a water-repellent surface.

CONTENTS

SiOO:X Premium Wood Protection Deck: Silicon, potassium, organic matter and water.

SiOO:X Premium Surface Protection Deck: Silicon emulsion and water.

COVERAGE

SiOO:X Premium Wood Protection Deck: 1 litre is sufficient to cover about 4–5 square metres with two coats on recommended wood surfaces. Older wood requires a larger quantity.

SiOO:X Premium Surface Protection Deck: 1 litre is sufficient to cover about 8–10 square metres per coat on recommended wood surfaces.

Products are sold in 1-, 3- and 5-litre cans. Pretreated wood is available for order.

The product technology is tested for protection against rot in accordance with standards EN 84 and EN 113. Products are intended for use above ground, user class UC 3 in accordance with EN 335.

SUITABLE DECK CONSTRUCTION

Make sure the construction is strong enough and well ventilated i.e. that beams are spaced no further apart than 60 cm, that the deck is high enough above the ground (min. 40 cm) and that rainwater can run off easily. Make sure that the gap between deck boards is wide enough (around 7–8 mm) so that water can run off even when the wood expands and organic matter such as leaves fall on the deck. Use gravel, a ground membrane or the like to reduce humidity, and leave openings on several sides to allow ventilation underneath the deck. Use stainless/acid-resistant screws, nails and hardware. Galvanized nails and screws could corrode and stain the wood. Product information: sioox.com. For information on construction details, refer to national building standards.

SUITABLE DECKING TIMBER ²

Pressure-treated pine, larch heartwood, hardwood, heart pine, heat-treated wood, oak, cedar, accoya, kebony. Different species have different properties, such as absorbency, and their lifespan varies depending on their natural resistance to rot. SiOO:X penetrates into almost all species of wood, then bonds with and strengthens the surface of the wood, improving its resistance to rot. Aside from the species of wood and protection offered by SiOO:X treatment, the lifespan depends on the design, maintenance and exposure (weathering) of the wood. If your deck has been oiled annually or recently the wood will be saturated and it will be difficult for the SiOO:X system to penetrate.

THE WOOD DEVELOPMENT OVER TIME ¹

Initially, the wood surface looks yellow-brown and slightly patchy. It gradually lightens as the silicon matures, which happens in contact with rain, moisture and CO₂. The surface starts to turn a beautiful silver-grey colour after just 2–6 weeks. This process takes up to 1 year for horizontal wood such as decking. The light, beautiful wood surface then darkens slightly over time. Surfaces that are under cover turn grey more slowly.

CARE, MAINTENANCE AND DAMAGE

The silicon shield created by the SiOO:X treatment protects the wood, but as always, dirt and algae may settle on the surface. This happens particularly during wet periods, in shady areas and in exposed locations. So try to keep the surface clean and remove dirt, debris, mould and algae, etc. Clean the decking as needed, especially exposed areas that are in the shade, close to plants or underneath pots and furniture.

Maintain as follows, when needed:

1. When the deck is dry: brush away dirt, mould and loose fibers, etc., with a medium-stiff brush.
2. If necessary, wash gently with SiOO:X Maintenance Wash (pH 7). Avoid products with a pH lower than 5 or higher than 8, as they reduce the effectiveness of Surface Protection. Avoid soft soap.
3. Any heavier growth can be remedied with algicides. Use products with a pH of 3–7, which are gentler on the surface protection.
4. To treat more stubborn deposits or surface damage, use SiOO:X Prewash, which has an effective deep-cleaning action. This will dissolve the Surface Protection. Re-coat as needed with SiOO:X Wood Protection and/or Surface Protection.
5. After long wet periods, loose fibers may appear on the surface. This is due to an excess of Surface Protection, and usually appears on poorly draining surfaces after the first winter. The fibers are generally washed away by rain, or can be brushed off. You should therefore only apply a thin coat of Surface Protection. When surfaces are wet the Surface Protection is more vulnerable to scraping beneath chair legs and the like. Deeper wood is still protected by the Wood Protection, so brush away any fibers then touch up the surface with Surface Protection. The light-grey appearance will be restored within a month or two. See sioox.com.
6. After about 12 years, clean the deck with SiOO:X Prewash and repeat the entire treatment. Read more at sioox.com.

DIRECTIONS

PREPARATIONS

Protect all adjacent surfaces from splashes. This applies particularly to glass, aluminum, stone and tiles, etc. The products may leave stains. Use SiOO:X Prewash to remove loose paint, dirt, etc. Any remaining paint should be sanded off. Rinse off with water and allow the deck to dry thoroughly.

KEEP IN MIND

The deck should be surface dry. Do not apply if the temperature is below 6°C, in bright sunshine or if there is a risk of rain between the time you start and 60 minutes after coating with step 2. It is recommended to divide the deck into areas of 30–50 square metres and apply all three coats on the same day. If, however, more than 6 mm of rain falls on the Wood Protection you should apply another light coat of Wood Protection. **Shake well and stir during application.** Wipe up any spills with a damp rag. The durability of SiOO:X also depends on the wood species and exposure. Take care on the treated surface while it is wet. It is important to treat cut edges and end grain to ensure good durability.

EQUIPMENT

You need a container, brush, cover sheet, decking applicator or spray, paintbrush and rag. Wear gloves and eye protection. Equipment can be cleaned with water.

STEP 1 – BASE COAT

Apply SiOO:X Premium Wood Protection Deck using a decking applicator or spray and a paintbrush, brushing it out well and allowing it to penetrate. Allow to dry for at least 2 hours. Apply a second coat of Wood Protection and allow to dry for at least 4 hours. You should also treat end grain and other cut edges with Wood Protection and Surface Protection, separately or when other surfaces are treated. This is especially important for wood that has not been pressure-treated.

STEP 2 – FINISH COAT, FIRST SEASON

Apply SiOO:X Premium Surface Protection Deck using a decking applicator or spray and a paintbrush. Let the product soak in for a few minutes and brush it out well. The deck should be ready to use after around 1 hour.

STEP 2 – FINISH COAT, AFTER ABOUT 12–18 MONTHS

After about 12–18 months, the deck will need a second treated coat with SiOO:X Surface Protection. This seals the surface for long-lasting protection longer. Wash clean with SiOO:X Maintenance Wash. Allow the surface to dry thoroughly. Then apply Surface Protection according to the instructions for the first season. The deck should be ready to use after around 1 hour. A further coat of Surface Protection may be needed after a few years. On especially exposed areas and less durable species of wood you may need to reapply Wood Protection/Surface Protection several times during the lifetime of the surface.

ABOUT US

Since its inception in 1998, Sioo has conducted research and development of environmentally designed wood protection products for both businesses and private individuals. Our products are based on a patented silicon-potassium technology. We have research and production facilities and offices in Gothenburg, Sweden.

SiOO:X PRODUCTS: (Local deviations may occur)

SiOO:X Premium Wood & Surface Protection Deck – for decking, docks, outdoor furniture and other wood on the deck.

SiOO:X Premium Wood & Surface Protection Panel – for siding, fences and other vertical surfaces. Also available pigmented.

SiOO:X Premium Wood & Surface Protection Marine – for teak on boats.

SiOO:X Wood Protective Panel Colours – for sawn, vertical surfaces such as siding and fences. Available in shades of grey, brown and black.

SiOO:X End Grain Sealer Step 1 & 2 – for wood ends, cuts, rips and joints.

SiOO:X PreWash Wood cleaning before SiOO:X-treatment. Cleaning of treated surfaces with heavy dirt and algae growth. Also dissolves and removes SiOO:X Surface Protection which then must be applied again.

SiOO:X Maintenance Wash – for cleaning of SiOO:X treated wooden surfaces.

SiOO:X Wood Protection Treated Wood – high-quality wood with options for custom profiles and dimensions.

For best results, follow the product instructions. For more information about treatment and maintenance, and inspiring ideas and advice, visit sioox.com.

Reservation for possible changes. Information subject to change without notice. Sioo reserves the right to update this material as appropriate. Users are responsible for checking for any updates at sioox.se. If you have any questions or concerns, or if you are unsure about anything before using the product, contact us at sioox.com.