

SiOO:X PREMIUM WOOD & SURFACE PROTECTION

Panel

FOR DURABLE, NATURAL-LOOKING,
SILVER-GREY FACADES



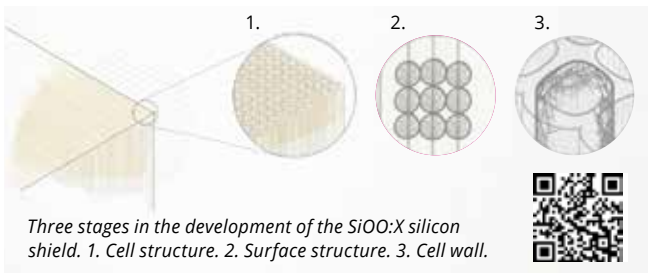
ENHANCED PROTECTION
LASTS UP TO
15
years
MORE DURABLE, CLEANER, BRIGHTER SURFACE

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, which has been improved in 2023 to give even better protection. 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 and 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 15 years durability
- Creates a subtle, matt silver-grey finish
- Water-based, low environmental impact
- Binds CO₂
- Reduces mould spores and protects against rot
- 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: facades, fences and other vertical surfaces. Sawn timber surfaces are more durable and are recommended. Structured surfaces can also be used.

¹ Lifespan of up to 15 years for step 1 – SiOO:X Premium Wood Protection Panel. See sioox.com/articles/tests-and-proofs.

A second application of SiOO:X Premium Surface Protection Panel may be necessary after about 3–7 years. The reduction in mould varies with factors such as time, season and location.

Photo: Top centre, decking handrail, Villa Moelven, Älgö. Treated with SiOO:X Premium Panel. Cover photo Windish Summer Cottage, Gotland. SiOO:X-treated heart pine. Photo taken after 4 years. Photo: Karin Björkqvist.



SiOO:X PREMIUM WOOD PROTECTION/ SURFACE PROTECTION PANEL

SiOO:X wood protection system for cladding consists of two steps: a wood-protecting base coat and a supplementary finish coat. Together they penetrate and form a very strong interface with the wood, resulting in long durability and a natural silver-grey finish.

Step 1. SiOO:X Premium Wood Protection Panel – penetrates, strengthens and protects the wood for up to 15 years.

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

CONTENTS:

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

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

COVERAGE:

SiOO:X Premium Wood Protection Panel: 1 litre is sufficient to cover about 3,5 square metres with two coats on sawn cladding. Older wood requires a larger quantity.

SiOO:X Premium Surface Protection Panel: 1 litre is sufficient to cover about 7 square metres per coat on sawn cladding.

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.

INFO FROM THE WOOD DOCTOR!

Vertical cladding is drier, cleaner and more durable than horizontal cladding. Use sawn timber as it absorbs wood protection products better. Some structured surfaces can also be used.

Herje Boström, CEO.



SUITABLE TIMBER FOR CLADDING

Suitable species are spruce, pine, thermowood (such as Vulcan), heartwood of pine and larch, logs, glulam, hardwood, cedar, etc. SiOO:X works with the wood to provide protection. This means that the properties of the wood and its surface structure influence the lifespan of the treatment. The construction, location and weather exposure of the building also affect durability.

Sawn timber surfaces are more durable and are recommended. Structured surfaces can also be used. Vertical cladding is preferable as it sheds water more easily than horizontal cladding. The surface remains cleaner and has a longer lifespan.

Tip: Use stainless/acid-resistant screws, nails and hardware. Galvanized nails and screws could corrode and stain the wood.

CARE & MAINTENANCE

The second coat of SiOO:X Surface Protection Panel (step 2) should be applied around 3–7 years later. By looking after and maintaining your cladding you can maximize performance and durability.

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.

Maintain as follows, when needed:

1. When the cladding is dry: brush gently to remove loose dirt, mould spores, etc., using 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. After about 15 years, clean the surface with SiOO:X Prewash and repeat the treatment. Read more at sioox.com.

THE WOOD DEVELOPMENT OVER TIME ¹

The SiOO:X system is unique as the surface becomes more attractive with time. 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, and the wood turns silver-grey. Because SiOO:X acts on the structure of the wood without using “toxins”, mould spores may appear initially, before the process is complete. But with time the wood will become stronger and cleaner. The wood surface will then darken slightly. The silicon curing process takes around 0–4 years.

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 cladding must be dry. Do not apply if the temperature is below 6°C for Wood Protection, or 10°C for Surface Protection, in bright sunshine or if there is a risk of rain between the time you start and 60 minutes after coating with step 2. Wipe any spillage with a damp rag. NOTE: Shake before use. Stir during treatment. We recommend using sawn wood that has a rougher surface. Vertical wood surfaces are cleaner and more durable than horizontal surfaces, because they stay drier. The durability of SiOO:X also depends on the wood species and exposure. It is important to treat cut edges and end grain to ensure good durability.

EQUIPMENT

All you need are a container, paintbrush (or paint sprayer and paintbrush), cover sheet, cleaning brush and rag. Always wear protective gloves, head protection and eye protection. Equipment can be cleaned with water.

STEP 1 – BASE COAT

Apply a generous coat of SiOO:X Premium Wood Protection Panel using a paint sprayer 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. This can be done separately or at the same time as you treat other surfaces.

STEP 2 – FINISH COAT, FIRST SEASON

When the second coat of SiOO:X Premium Wood Protection Panel has dried for at least 4 hours, apply SiOO:X Premium Surface Protection Panel with a spray and paintbrush. Let the product soak in for a few minutes and brush it out well, then leave the surface to dry for at least 2 hours.

STEP 2 – FINISH COAT, AFTER ABOUT 3–7 YEARS

Assess the surface and if needed apply a second coat of SiOO:X Premium Surface Protection Panel after about 3–7 years. First, carefully clean the surface using SiOO:X Maintenance Wash and a soft brush. Allow the surface to dry thoroughly. Then apply Surface Protection according to the instructions for the first season. On particularly exposed areas, in harsh conditions, on less durable species of wood or after deep cleaning it may be necessary to re-apply Wood Protection and 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 Surface Protection End Wood Sealing – One Coat – protects pressure-treated wood and heartwood in one coat. Also used as step 2 after Step 1 Wood Protection End Wood Sealing.

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 XMould – effective against mold and algae on outdoor wooden surfaces. Especially adapted for best effect on Sioo:x-treated wood.

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.