

SiOO:X WOOD PROTECTIVE

Panel Colours

FOR DURABLE, NATURAL-LOOKING FACADES
IN VARIOUS SHADES OF GREY/BLACK AND BROWN

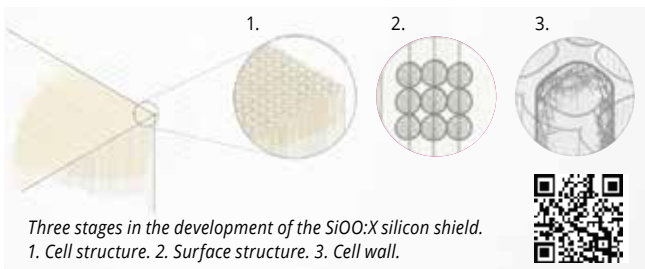
ENHANCED PROTECTION
LASTS UP TO
15 years
MORE DURABLE, TRUE TO COLOUR, CLEANER SURFACE



SiOO:X
WOOD PROTECTION

INNOVATIVE, ENVIRONMENTALLY ADAPTED WOOD PROTECTION

SiOO:X Wood Protective Panel Colours 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
- Subtle, matt wood finishes in shades of grey, black and brown
- 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 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. Textured surfaces can also be used. ²

¹ Lifespan of up to 15 years for step 1 – SiOO:X Panel Colour Wood Protection. A second application of Surface Protection may be necessary after about 3–7 years. The reduction in mould varies with factors such as time, season and location.

² See sioox.com/articles/tests-and-proofs/, for information on textured surfaces.

Cover photo: House in Førresfjorden outside Haugesund, Norway. Built from heart pine. Treated with SiOO:X Wood Protective Panel Colour, 02–Oyster Grey. Photo: Birgit Ekrh. Photo above: Anicura Animal Hospital, Jönköping, Sweden, treated with SiOO:X Wood Protective Panel Colour, 03–Shark Grey. Photo: Richard Hansson.



SiOO:X WOOD PROTECTIVE PANEL COLOURS

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 strong interface with the wood, resulting in long-lasting durability.

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

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

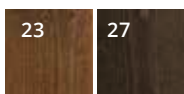
SHADES

SiOO:X Wood Protective Panel Colours are available in shades of grey, black and brown.

Grey/black: 1. Cloud Grey, 2. Oyster Grey, 3. Shark Grey, 4. Fog Grey, 5. Thunder Grey, 6. Lava Grey, 7. Black Stone.



Brown: 23. Almond Brown and 27. Walnut Brown.



Color rendering is approximate.

CONTENTS

SiOO:X Panel Colour Wood Protection: Silicon, potassium, pigment and water. **SiOO:X Panel Colour Surface Protection:** Silicon emulsion, pigment and water.

COVERAGE

SiOO:X Panel Colour Wood Protection: 1 litre is sufficient to cover about 3–4 square metres with two coats on sawn cladding. Older wood requires a larger quantity.

SiOO:X Panel Colour Surface Protection: 1 litre is sufficient to cover about 8–10 square metres per coat on sawn cladding.

The products are sold in 3- and 10-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 textured surfaces can also be used.

Herje Boström, CEO.



SUITABLE TIMBER FOR CLADDING

Suitable species are spruce, pine, heat-treated wood (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. Textured surfaces can also be used ². 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 Panel Colour Surface Protection (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 avoid removing pigments) 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.

HOW DOES THE APPEARANCE OF THE WOOD CHANGE OVER TIME? ¹

Dark grey and black shades (5, 6 and 7) and brown shades may become lighter with time, especially on knots. The colour can be readjusted by roughening the surface with 40–60 grit sandpaper and applying more SiOO:X Panel Colour Surface Protection. Durability (including readjustment) is up to 12 years.

The lighter shades of grey (1–4) tend to age in harmony with the colour of the underlying wood. The maintenance interval can therefore be 15 years or more.

Extractive compounds in wood may be partially leached out after rain during the early months. These may appear as small brown flakes, but will disappear over time and are not harmful.

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 with water and allow the cladding 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.** Use 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:

A container, paintbrush (or paint spray and paintbrush), cover sheet, cleaning brush and rag. Always wear protective gloves, head protection and eye protection if needed. Equipment can be cleaned with water.

STEP 1 – BASE COAT

Apply a generous coat of **SiOO:X Panel Colour Wood Protection** 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 Panel Colour Wood Protection has dried for at least 4 hours, apply **SiOO:X Panel Colour Surface Protection** 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 Panel Colour Surface Protection after about 3–7 years. Carefully clean the surface using SiOO:X Maintenance Wash with a soft brush. Allow the surface to dry thoroughly. Then apply SiOO:X Panel Colour 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 business and consumers. 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.com. If you have any questions or concerns, or if you are unsure about anything before using the product, contact us at sioox.com.