

SLOO:X

Patented Wood Protection

Wood Protection & Surface Protection Pigmented

For durable, natural building façades in
various grey/black and brown shades

Innovative, environmentally friendly wood protection

SiOO:X Wood-Protective Panel Coatings are water-based and environmentally adapted. You get healthy, natural-looking wood surfaces that last for a very long time. The character changes somewhat over time with natural variations. SiOO:X is based on a unique, patented silicon-potassium formula. The products penetrate and integrate well into the wood. A silica shield then forms (see image below), strengthening and protecting the wood from within, giving it a unique multi-protection.

This allows you to use the products on most types of wood, on both old and new surfaces.

Key benefits¹

- Up to 15 years of durability
- Subtle, matte wood surface available in grey, brown, and black shades
- Water-based, environmentally optimized
- Binds CO₂
- Reduces the growth of biological buildup and protects against rot
- Easy maintenance

Strengthens and mineralizes the wood, resulting in:

- Dirt and water repellency
- UV protection and reduced darkening of the wood surface
- Fewer cracks and splinters
- Diffusion-open (the wood can breathe)
- Wood strengthening and longer lifespan

Also available with top-tier fire protection in collaboration with our strategic partner Burnblock®.

Applications:

Facades, fences, and other vertical surfaces. Sawn surfaces have greater durability and are recommended. Textured surfaces can also be used.³

¹ The lifespan of up to 15 years applies to Step 1 – SiOO:X Pigmented Wood Protection Panel. A second application of the top coat may be needed after approximately 3–7 years. Biological growth is reduced, but may vary over time depending on season, location, etc. See sioox.se for Tests and Evidence, Durability on different wood types, and special articles.

² Note: During the first 2–4 weeks after application, the painted surface may appear glossy.

³ See sioox.se/articles for information about textured surfaces.

Shades:

SiOO:X Pigmented Wood Protection panel products are available in: Clear, Light Grey, Mid Grey, Oyster Grey, Almond Brown, and Black Xtreme.

SiOO:X pigmented panel products

SiOO:X wood protection system for panel consists of two steps: a wood-protective base treatment and a complementary surface treatment. Together, they penetrate and integrate exceptionally well with the wood, providing long-lasting durability.

Step 1 – SiOO:X Wood Protection Panel – penetrates, strengthens, and protects the wood for up to 15 years¹

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

Contents:

SiOO:X Wood Protection pigmented panel: silica, potassium, color pigments, and water.

SiOO:X Surface Protection pigmented panel: silica emulsion, color pigments, and water.

Coverage:

SiOO:X Wood Protection Panel: 1 liter covers approx. 3.5 m² in two coats on sawn panel. Older wood requires a higher quantity.

SiOO:X Surface Protection Panel: 1 liter covers approx. 7 m² in one coat on sawn panel.

The products are sold through our certified partners worldwide. The product technology has been tested for rot protection according to standards EN 84 + EN 113. The products are intended for above-ground use, use class UC 3, according to EN 335.

Tip!

Vertical cladding is drier, cleaner, and more durable than horizontal cladding. Use sawn wood, which absorbs the wood protection products better. Certain textured surfaces can also be used.

Suitable panel timber

Suitable wood species include spruce, pine, thermally modified wood (e.g. Vulcan), heartwood pine, larch, timber logs, glulam, hardwood, cedar, among others. SiOO:X protects in synergy with the wood itself. This means the wood's properties and surface structure affect the service life of the treatment. The building's construction, location, and weather exposure also influence durability. Sawn surfaces have a longer lifespan and are recommended. Textured surfaces can also be used³. Vertical installation is preferred as it provides better water runoff than horizontal surfaces. This results in a cleaner surface and longer service life. Tip: Use stainless or acid-resistant screws, nails, and fasteners. Galvanized nails and screws may corrode and cause staining ("tears").

Maintenance & care

The second layer, SiOO:X Surface Protection Panel (Step 2), is applied after approximately 3–7 years. By properly maintaining your panel, you ensure optimal performance and durability. The SiOO:X silica shield protects the wood, but as with any surface, dirt and biological growth may occur on the outside. This is especially common during wet periods, in shaded areas, and in exposed locations. Therefore, keep the surface clean; dirt, debris, and biological growth such as mold and algae should be removed.

Actions based on level of need:

1. When the panel is dry, gently brush (so the pigment does not loosen) to remove loosely attached dirt, black spores, etc., using a dense, medium-hard brush.
2. If necessary, gently wash (so the pigment does not loosen) with SiOO:X Re-Wash (pH 7). Avoid products with a pH lower than 5 or higher than 8, as they may impair the function of the surface protection. Avoid soap. Note: The panel should not be washed during the first year after treatment, as the surface protection is particularly sensitive during this period.
3. More severe surface biological growth can be treated with SiOO:X GreenClean, which is gentle on the surface protection.
4. After approximately 15 years (shorter for darker shades), clean the surface with SiOO:X Pre-Wash and repeat the full treatment. Read more at sioox.se.

How does the wood develop over time?

The dark grey/black shades, as well as the brown tone, may lighten over time, especially on knots. This can be adjusted by roughening the surface with sandpaper (40–60 grit) and applying a new layer of more pigmented surface protection. Durability including adjustments is up to 12 years.

The lighter grey shades 1–4 largely harmonise with the natural colour development of the underlying wood. As a result, maintenance intervals may extend beyond 15 years. Wood extractives may be partially leached out by rain during the first months. This can appear as small brown spots, but they disappear over time and are harmless.

Re-treatment after 3–7 years

Preparation

Protect all adjacent surfaces from splashes. Glass, aluminium, stone, tiles, etc. are particularly sensitive. One of the products, the wood protection, is alkaline and may leave stains. Use SiOO:X Pre-Wash to remove paint residues, dirt, etc. Any remaining residues should be sanded off. Rinse with water and allow the panel to dry thoroughly.

Things to consider

The panel must be dry. Do not apply treatment below +6°C for the Wood Protection and +10°C for the Surface Protection, in direct strong sunlight, or if there is a risk of rain from the start of application until 60 minutes after applying Step 2. Wipe off any spills with a wet cloth. Note: Shake well. Stir during application. Use sawn wood with a coarser surface texture. Vertical wood surfaces are cleaner and more durable than horizontal ones, as they stay drier. The durability of SiOO:X also depends on wood species and exposure conditions. Treatment of cut ends and end grain is essential for a successful result.

Equipment

Container, brush or paint sprayer and brush, covering materials, brush and cloth. Use protective gloves, head protection, and safety goggles. Equipment is cleaned with water.

Step 2 – Surface treatment, after approximately 3–7 years

SiOO:X Surface Protection Panel is applied, after assessment and as needed, a second time after approximately 3–7 years. The surface is gently cleaned with SiOO:X Pre-Wash and a soft brush. Allow the surface to dry thoroughly. Then apply the Surface Protection according to the instructions for the first season.

In particularly exposed areas/conditions, for sensitive wood species, and after heavy cleaning, it may be necessary to reapply the wood protection/surface protection multiple times during the service life of the surface.

About us

SiOO:X has, since its founding in 1998, conducted research and development of environmentally adapted wood protection products for both private individuals and companies. Our products are based on a patented silicon-potassium technology. We have research, production, and offices in Gothenburg.

SiOO:X products:

SiOO:X Wood Protection Decking & Surface Protection

Decking – for decking boards, docks, outdoor furniture, etc.

SiOO:X Wood Protection Panel & Surface Protection Panel

– for fine-sawn facades, fences, and other fine-sawn vertical surfaces.

SiOO:X End Grain Sealer – protects pressure-treated wood and heartwood, end grains and cuts in combination with Surface Protection.

SiOO:X Re-Wash – for easier cleaning of wood treated with SiOO:X Wood Protection/Surface Protection.

SiOO:X GreenClean – effective against algae on outdoor wood surfaces. Specially adapted for best performance on SiOO:X-treated wood.

SiOO:X Pre-Wash – cleaning prior to SiOO:X treatment, as well as for surfaces with heavy dirt buildup.

For best results, it is assumed that instructions, information materials, and Swedish building regulations are followed. For more information on treatment and maintenance, as well as inspiration and advice, visit sioox.se.

Subject to possible changes. The user is responsible for checking any updates at sioox.se. If you have questions or concerns before using the product, contact us at info@sioox.se.