

STEP
1
OF
2

UK

SiOO:X
WOOD PROTECTION

Light
Grey

SiOO:X Wood Protector

LIGHT GREY INDUSTRY

Subtle, matte wood surface
Reduces mildew and mild rot
Environmentally adapted • Easy to clean
www.sioox.org.uk

SWEDISH PATENTED TECHNOLOGY



10 LIT

SiOO:X' concept consisting of STEP 1 – WOOD PROTECTOR and STEP 2 – SURFACE PROTECTOR, is a professional grade, patented, water based, silicate wood protection system developed and owned by Sioo Wood Protection AB based in Gothenburg, Sweden.

These instructions are for the application of SiOO:X using preferably industrial brush coating, vacuum coating and spray coating equipment in factory controlled conditions.

1. PRODUCT CHARACTERISTICS

SiOO:X is a low viscosity fluid with a viscosity measure just less than that of water. It flows readily across and into timber surfaces of appropriate species and characteristics. The product, SiOO:X Wood Protector Industry is alkaline with a pH of 11.5.

SiOO:X is a penetrant – it is not a film coating. Timber treated with SiOO:X is open to diffusion and can breathe. To work effectively, sufficient SiOO:X fluid needs to be penetrated into the timber substrate.

SiOO:X is a wood protection system – it is not a wood preservative. The product is intended for Use Class 3 above ground contact applications. It is not designed for use in ground contact.

2. STORAGE

The product must be stored under cover at a temperature of no less than 5 degrees Centigrade. Storage time under these conditions is max six years for unopened packaging.

3. COATING OBJECTIVES

Specifically for external applications the objective is to achieve long life by achieving adequate penetration of the timber being treated preferably on all exposed surfaces or surfaces potentially exposed to moisture ingress, including end grain.

To meet this objective, a number of criteria must be achieved:

- the timber must be dry with a moisture content of below 20%
- the timber should be durable and of good quality
- the timber surface must be opened up by sawing or sanding with a 60 grit paper or by denibbing
- some naturally open structured species such as western red cedar and thermally modified timber absorb the treatment particularly well but this can be reduced by the presence of sawmill planing mill glaze. Saw finishing or sanding removes any such issue
- the temperature of the working area must be above 12°C

4. COATING PROCESS

4.1. The coating equipment, supply tanks, brushes, sumps, spray heads and supply lines should have been cleaned of traces of previous treatments, especially from third

party treatment products. Cleaning of previous SiOO:X traces is readily achieved by flushing clean water through the equipment.

4.2. The coating equipment should be loaded step by step with SiOO:X fluid which has been thoroughly stirred to get all material including the heavier ingredients into suspension – this is particularly important with the SiOO:X pigmented products. The most effective way to mix is by using a mechanically driven giro mixer. Mixing can be accomplished by inserting hand held mixing tools into the fluid container taking care to lift all heavier components into suspension. **Make sure to empty all contents of the container into the coater system.**

4.3. Firstly the coater has to be burdened with SiOO:X Wood Protector Industry. The timber is fed through the coater either by an automatic in-feeder or by hand depending on the sophistication of the equipment. To achieve adequate penetration the coater should be set to flood the timber surface to soak into the substrate. The coater should be set to remove any excess fluid. If any foaming occurs add a De-Foamer. Contact Sioo support.

4.4. Treated timber is normally out fed from the coater and placed on inside drying racks in a dry environment with good air flow. The treated timber should be dried until at least dry to the touch.

4.5. The dried timber has to be fed through the coating process again as for 4.3 and a second coat of SiOO:X Wood Protector Industry applied.

4.6. The timber, now fully coated with two coats of SiOO:X Wood Protector Industry, has to be fully dried to touch dry, preferably on inside drying racks in preparation for treating with Surface Protector Industry.

4.7. The remaining SiOO:X Wood Protector Industry has to be removed from the coater and stored in containers fully secured. The coater must be flushed through with water before Surface Protector Industry is applied. The flushing water should be taken care of according to local requirements.

5. COATING LEVELS

The weight of coating is a matter of operator judgement to achieve full penetration by applying the treatment of each coat to the saturation point. The experience of the operator is crucial in this regard. Different timber species have different levels of uptake. For example Western Red Cedar and ThermoWood will have a higher level of SiOO:X uptake than Siberian Larch or Oak.

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4.3. Firstly the coater has to be burdened with SiOO:X Surface Protector. The timber pre-treated with two coats of SiOO:X Wood Protector is fed through the coater either by an automatic in-feeder or by hand depending on the sophistication of the equipment. To achieve adequate penetration the coater should be set to flood the timber surface to soak into the substrate. The coater should be set to remove any excess fluid. If any foaming occurs add a De-Foamer. Contact Sioo support.

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4.4. Treated timber is normally out fed from the coater and placed on inside drying racks in a dry environment with good air flow. The treated timber should be dried until at least dry to the touch.

4.5. The dried timber has to be fed through the coating process again as for 4.3 and a second coat of SiOO:X Wood Protector Industry applied.

4.6. The timber, now fully coated with two coats of SiOO:X Wood Protector Industry, has to be fully dried to touch dry, preferably on inside drying racks in preparation for treating with Surface Protector Industry.

4.7. The remaining SiOO:X Wood Protector Industry has to be removed from the coater and stored in containers fully secured. The coater must be flushed through with water before Surface Protector Industry is applied. The flushing water should be taken care of according to local requirements.

5. COATING LEVELS

The weight of coating is a matter of operator judgement to achieve full penetration by applying the treatment of each coat to the saturation point. The experience of the operator is crucial in this regard. Different timber species have different levels of uptake. For example Western Red Cedar and ThermoWood will have a higher level of SiOO:X uptake than Siberian Larch or Oak.

In case of contact with eyes or skin, wash with water.

Reservation for possible changes. For the latest information, see sioox.org.uk.

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STEP
2
OF
2

UK

SiOO:X
WOOD PROTECTION

Mid-
Grey

SiOO:X Surface Protector

MID-GREY INDUSTRY

Subtle, matte wood surface
Reduces mildew and mild rot
Environmentally adapted • Easy to clean
www.sioox.org.uk

SWEDISH PATENTED TECHNOLOGY



20 LIT

SiOO:X' concept consisting of STEP 1 – WOOD PROTECTOR and STEP 2 – SURFACE PROTECTOR, is a professional grade, patented, water based, silicate wood protection system developed and owned by Sioo Wood Protection AB based in Gothenburg, Sweden.

These instructions are for the application of SiOO:X using preferably industrial brush coating, vacuum coating and spray coating equipment in factory controlled conditions.

1. PRODUCT CHARACTERISTICS

The product, SiOO:X Surface Protector Industry is low alkaline with a pH of 8.

SiOO:X is a penetrant – it is not a film coating. Timber treated with SiOO:X is open to diffusion and can breathe. To work effectively, sufficient SiOO:X fluid needs to be penetrated into the timber substrate.

SiOO:X is a wood protection system – it is not a wood preservative. The product is intended for Use Class 3 above ground contact applications. It is not designed for use in ground contact.

2. STORAGE

The product must be stored under cover at a temperature of no less than 5 degrees Centigrade. Storage time under these conditions is max two years for unopened packaging.

3. COATING OBJECTIVES

Specifically for external applications the objective is to achieve long life by achieving adequate penetration of the timber being treated on all exposed surfaces or surfaces potentially exposed to moisture ingress, including end grain.

To meet this objective, a number of criteria must be achieved:

- the timber must be dry with a moisture content of below 20%
- the timber should be durable and of good quality
- the timber surface must be opened up by sawing or sanding with a 60 grit paper or by denibbing
- some naturally open structured species such as western red cedar and thermally modified timber absorb the treatment particularly well but this can be reduced by the presence of sawmill planing mill glaze. Saw finishing or sanding removes any such issue
- the temperature of the working area must be above 12°C

4. COATING PROCESS

4.1. The coating equipment, supply tanks, brushes, sumps, spray heads and supply lines should have been cleaned of traces of previous treatments including the SiOO:X Surface Protector Industry and especially from third party treatment products. Cleaning of previous SiOO:X traces is readily achieved by flushing clean water through the equipment.

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4.2. The coating equipment should be loaded step by step with SiOO:X fluid which has been thoroughly stirred to get all material including the heavier ingredients into suspension. The most effective way to mix is by using a mechanically driven giro mixer.

Mixing can be accomplished by inserting hand held mixing tools into the fluid container taking care to lift all heavier components into suspension. The Surface Protector Industry must be stirred fully to get all ingredients deposited at the bottom of the container into suspension before pouring into the coater. **Make sure to empty all contents of the container into the coater system.**

4.3. Firstly the coater has to be burdened with SiOO:X Surface Protector. The timber pre-treated with two coats of SiOO:X Wood Protector is fed through the coater either by an automatic in-feeder or by hand depending on the sophistication of the equipment. To achieve adequate penetration the coater should be set to flood the timber surface to soak into the substrate. The coater should be set to remove any excess fluid. If any foaming occurs add a De-Foamer. Contact Sioo support.

4.4. Treated timber is normally out fed from the coater and placed on inside drying racks in a dry environment with good air flow until touch dry.

4.5. The remaining Surface Protector Industry has to be removed from the coater and stored in containers fully secured. The coater must be flushed through with water after Surface Protector Industry is applied. **The flushing water should be taken care of according to local requirements.**

4.6. If there is a time lapse before shipment to the customer the treated timber should be stacked unwrapped, and stuck with good air circulation.

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