

▶ Description



TamSil 1 is a clear, chemically reactive, silicate based sealer. Once applied it penetrates the concrete providing protection to the surface, ensuring long term durability.

▶ Key Benefits

- No re-application or future maintenance required
- 100% trafficable after the first application
- If stubborn cracks are present - easy to find and fix. No lifting of membranes required
- Permanently seals cracks up to 2.0mm
- Re-seals future hairline cracks
- Water permeability reduced by 70%

▶ Typical Applications

- Concrete
- Heavy weight concrete blocks
- Mortar
- Plaster
- Stucco
- Terrazzo
- Exposed aggregate
- Cement combination

▶ Technical Data

TamSil 1	
Density	1.198 @ 20°C
Curing	94% greater moisture retention during the initial critical 24hr curing period as compared to untreated samples.
Coverage	Approximately 5m ² /kg. Coverage depends on the temperature and porosity of the concrete.
Absorption ratio for water absorption BS EN 13580:2002	7.1%
Absorption ratio for resistance to Alkali BS EN 13580:2002	9.4%
Application Temperature	40°C down to 5°C. Do not allow to freeze for a period of six days.
Drying Time	1 - 3 hours. Touch dry

All technical data stated herein is based on tests carried out under laboratory conditions.

▶ Application Guidelines

For new Concrete:

Step 1 - Apply TamSil 1 as soon as the surface is firm enough to walk on and before hairline cracking and temperature cracking begins. Keep the entire surface wet with TamSil 1 for 30 minutes.

Step 2 – As the TamSil 1 becomes slippery underfoot, lightly mist the surface with water. This will cause the material to become less slippery.

Step 3 – As the TamSil 1 becomes slippery underfoot again, thoroughly flush the surface with water and squeegee the surface completely dry to remove all surface alkali and TamSil 1 residues. On exterior broom finished surfaces, no flushing is required, but any remaining TamSil 1 must be squeegeed or broomed from the surface after 30-40 minutes.

For old Concrete (all cured surfaces):

Surface Preparation

All surfaces to be treated should be swiped with a fine bristle broom or scrub. Hose off with water and allow to dry. TamSil 1 can be applied to damp surfaces as long as all puddle areas are cleared away so that the TamSil 1 is not diluted before it is able to penetrate the surface.

Step 1 – Saturate the surface with TamSil 1 so that the entire surface is wet with TamSil 1 for 30 minutes.

Step 2 – Option A – if after 30 - 40 minutes the majority of the TamSil 1 has been absorbed into the surface, broom or squeegee any excess material from any low spots and puddles so that all remaining TamSil 1 is entirely absorbed into the concrete or totally removed from the surface.

Step 2 – Option B – if after 30 - 40 minutes the majority of the TamSil 1 is still on the surface, wait until it becomes slippery underfoot, then thoroughly flush the entire surface with clean water and squeegee till completely dry to remove all TamSil 1.

Note: Apply TamSil 1 to coloured concrete only after the slab is fully cured.

Spray, pour, broom or squeegee to saturate the surface.

Walls: Flush with water.

Ongoing Maintenance

Floors: Wash or wet mop with a neutral or high pH detergent.

Limitations

- Do not apply when the temperature falls below 5°C.
- Do not apply to seal lightweight or other extremely porous masonry that contains actual holes and air pockets. Do not apply to areas previously treated with curing or sealing agents unless these coatings have been removed by chemical or mechanical means.
- Do not put on glass or other finished surfaces. If so, flush immediately with clean water.

▶ Related Products & Equipment

Low pressure sprayer, soft bristle broom, squeegee and water hose.

▶ Coverage

Approximately 5m²/kg. Coverage depends on the temperature and porosity of the concrete.

▶ Storage

TamSil 1 should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 1 year can be expected.

▶ Health & Safety

TamSil 1 should only be used as directed. We always recommend that the Health & Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Health & Safety data sheet is available upon request from your local TAM International representative.