

Purigo[®]-5 S

Concrete dustproofer and surface hardener

Positioning

Description

- Purigo-5 S is an economical, easy to use surface hardener and dustproofer for concrete floors. It is a liquid based on 'activated' sodium silicate which reacts chemically with calcium hydroxide in the concrete to bind up and tighten the top surface, producing a hard, dust free finish.
- Purigo-5 S can also be used to assist with curing of newly laid concrete surfaces. The microcrystalline sealing action of the Purigo-5 S binds up the surface pores. This reduces the evaporation of moisture from the concrete and thus helps to assist in better hydration of the cement.

Uses

Purigo-5 S is an efficient, economic product for use on concrete floors to prevent surface dusting from occurring. It will not however, make bad disintegrating concrete good.

Examples of flooring situations that would gain beneficial effect from the use of Purigo-5 S are:

- Warehouses and storage facilities
- Factories and assembly plants
- Carpark decks
- Purigo-5 S can be used to assist with the curing of concrete in vertical or horizontal situations where traditional methods are impractical, or subsequent coatings are to be applied which preclude the use of membrane type curing compounds.

Advantages

- Very quick and easy to apply
- Can be used on both new and old concrete
- Chemically reacts with concrete to become an integral part of the surface matrix.
- Purigo-5 S is the economical answer to the problem of surface dusting.
- Will not prevent overcoating when used to assist with curing of concrete
- Ideal for use as an aid to improve curing when traditional curing methods and membranes are impractical
- Helps concrete attain maximum hydration, strength, durability and surface hardness.

Tests

Approval / Standards

Purigo-5 S has been tested for curing efficiency and at a coverage rate of 5.5m²/litre the average water loss (evaporation) is 1.42kg/m². Although this result does not meet the requirements for the standard ASTM-C309, it is very effective in areas where film forming membranes, or ponding methods cannot be used.

Product Data

Form: Water based liquid

Colour: Clear

Packaging: Supplied in 20 litre and 200 litre non refundable containers.

Storage & Shelf Life: One (1) year in unopened original containers when stored in frost free conditions below 25°C.



Technical Data

Specific gravity:	1.0 kg/litre
Freezing point:	0°C
Application temperature:	Minimum +5°C
Coverage rate:	As a curing aid 5-6m ² /litre As a dustproofers 2-3 coats are recommended: 1 st coat = approx 4-6m ² /litre 2 nd coat = approx 7-8 m ² /litre
Drying time:	24 hours between coats Light foot traffic 24 hours after last coat

Application Conditions

Surface Preparation

- When using Purigo-5 S as a dustproofers/surface hardener the surface must be clean and free from any loosely adhering particles, or contaminants such as dust, dirt, oil, grease, curing compounds or tilt slab release agents, etc.
 - The concrete should be at least 21 days old and completely dry to ensure maximum depth of penetration and effectiveness.
 - As an aid to curing Purigo-5 S is applied to the concrete surface immediately after final tamping, trowelling or floating has been finished. For formed concrete it should be applied immediately after stripping of the formwork.
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Mixing & Application

- Purigo-5 S is ready to use and requires no mixing.
 - For dustproofing applications, Purigo-5 S can be sprinkled over the surface with a plastic watering can and dispersed with a soft broom or squeegee.
 - Spread Purigo-5 S back and forth over the surface to ensure maximum and even penetration is achieved.
 - Do not allow puddles to form in depressions on the floor surface or white staining may occur.
 - After allowing 24 hours to dry the second coat can be applied in the same manner.
 - For curing requirements, Purigo-5 S should be sprayed evenly and uniformly onto the finished surface at the stated coverage rate as soon as all visible "free" water has disappeared.
 - In hot or windy conditions it is recommended that the Purigo-5 S be covered with polythene sheeting for the first hour after application. This will enable the microcrystalline seal to take effect without premature evaporation.
 - 24 hours after the final treatment the floor should be washed with clean water.
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Important Notes

- In some cases where excessive Purigo-5 S has been applied and allowed to puddle there will be visible areas of white powdery crystals when the surface has dried. It is recommended that the floor be washed and scrubbed with clean water to remove this residual material.
 - Vacuuming of floor surfaces is the most effective way to remove all traces of dust and open up the pores of the substrate to allow maximum penetration for the Purigo-5 S.
 - If Purigo-5 S has been used to assist with curing of the concrete floor we recommend that another coat be applied after a minimum of 21 days to provide optimum dustproofing/surface hardening properties.
 - Purigo-5 S will not improve the performance of concrete which is already dusting or disintegrating. It is not recommended for restoring rain damaged surfaces.
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Notes

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Safety Instructions

Protective Measures

- To avoid rare allergic reactions, we recommend the use of protective gloves. Change soiled work clothes and wash hands before breaks and after finishing work.
- Local regulations as well as health and safety advice on packaging labels must be observed.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.



Important Notes

- Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.
- Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Construction



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