



SOLID CPS

High Performance Hardener, Strengthener and
Densifier for Concrete Floor



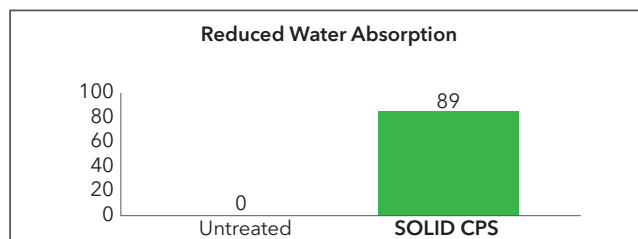
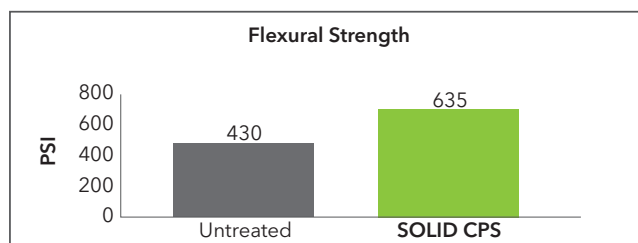
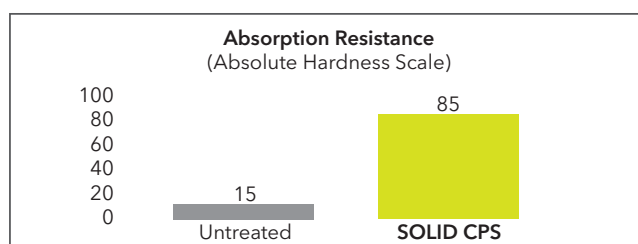
BENEFITS

- > Superior in performance over sodium based system.
- > Seals micro channels in concrete against water penetration and chemical attack.
- > Hardens - making concrete stronger and abrasion resistant.
- > Dust proofs - creating a cleaner, healthier environment.
- > Permanent - one penetrating application.
- > Easy maintenance. Makes cleaning easier. Reduces staining.
- > Satin sheen to concrete.

DESCRIPTION

SOLID CPS when applied on concrete surfaces penetrates into the micro channels and seals against water and chemical attack and improves abrasion resistance.

Performance Specification : When tested according to **ASTM C779**, the concrete treated with the system shall show an improvement in the abrasion resistance of at least 45% over control. When tested as per **ASTM C39**, the concrete treated with the system shall show a 46% improvement in hardening over control. The system should also impart a 40% improvement in the Moh's hardness scale test result.



Compatibility with Cement Types : **SOLID CPS** is suitable for use on concrete made with all normal OPC and PPC cement.

Anti Dust : The main source of dust, from otherwise sound concrete floors, is the liberation of free lime which has not been converted fully in hydration process. By converting this free lime into a hard crystalline material, this source of dust is eliminated. At the same time the resistance of concrete surface to penetration of oil and grease is considerably increased.

USES

SOLID CPS is used for surface hardening of old and new concrete to prevent dust generation and to reduce wear, particularly on exposed concrete. Typical areas of application include warehouses, factories, platforms, car parks, corridors etc., on both new and existing concrete surfaces.

PACKING & COVERAGE

SOLID CPS is supplied in 5 and 20 liter plastic bucket. Spray applied 0.2 liter / m² / coat on power trowelled surfaces. On textured surfaces the coverage will be much lower. Coverage depends on porosity and permeability of substrate.

SOLID CPS



HOW TO USE

Surface Preparation : The substrate shall be thoroughly cleaned of all foreign materials such as bond breakers, curing agents, form release oils, dust, construction laitance by light mechanical grinding if required. Clean the surface with a high pH detergent and wash thoroughly. The surface shall be saturated with water and later excess water has to be removed.

Application : A low pressure, high volume sprayer shall be used to apply **SOLID CPS** so as to form a glistening sheen and to ensure complete saturation of the surface. Enough **SOLID CPS** shall be applied to keep the surface wet for atleast 20 minutes. If applying by hand, spread the sprayed material with a lambs wool roller once or twice and then stop spreading. If spread excessively, it tends to dry in streaks. After 20 minutes, the excess material shall be removed and the surface shall be allowed to dry for 1 ~ 2 hours. The floor is ready to use after the surface is dry. A light lithium residue may form on the surface after the floor is dry. This is the excess **SOLID CPS** liquid floor hardener which was not absorbed and can be removed by a stiff broom or power sweeper. For an immediate shine, **SOLID CPS** shall be allowed to dry overnight and then polished with a high speed buffer equipped with a black pad, followed by a red pad.

Sealing / Overcoating / Striping : The treated surface can also be painted for striping as there will be no chemical incompatibility between **SOLID CPS** treated surface and these paints.

Maintenance : Floors treated with **SOLID CPS** benefit from good routine maintenance. Regular scrubbing with a high pH detergent is recommended and can increase the shine. Tyre marks can be removed with a citrus type of cleaner. Oils and acids should be removed properly to prevent damage.

Chemical Resistance : Concrete treated with **SOLID CPS** shall resist chemical attack from the following compound much more effectively. Extreme or prolonged exposures, especially to acids, may eventually cause some damage to concrete. However, concrete treated with **SOLID CPS** will be more resistant to staining.

ACIDS

| | |
|-------------------|-------------|
| Acetic Acid | < 10% |
| Acid Waters | pH < 6.5 |
| Chromic | 5% |
| Hydrochloric Acid | 10% |
| Phosphoric Acid | 10% and 85% |

Disclaimer : The information provided in the data sheets is based on both current development of work and years of field experience. Efforts are made to ensure that the information is reliable, however, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of continuing research and development (R&D) undertaken in our laboratories, we advise customers to ensure that the data sheets provided are not superseded by an updated publication. All products are sold are subject to our standard condition of sale, which is available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local **SOLID** representative.

SALTS

| | |
|-----------------|---------------------|
| Nitrate | Nitrite |
| Persulphate | Sodium Sulphate |
| Sodium Chloride | Sodium Thiosulphate |
| Petroleum Oils | Light Oil |

SOLVENTS & ALCOHOLS

| | |
|----------------------|----------------------|
| Carbon Tetrachloride | Ethyl Alcohol |
| Methyl Alcohol | Trichloroethylene |
| Acetone | Carbon Disulphate |
| Vegetable Oils | Fats & Fatty Acids |
| Glycerine | Coal Tar Distillates |

MISCELLANEOUS

| | |
|--------------------|--------------------------|
| Cold Ashes | Formaldehyde |
| Chloride Gas | Nickel Plating Solutions |
| Cider | Ores |
| Coal | Corn Syrup |
| Lignite Oils | Manure |
| Water | Wine |
| Fermenting Fruit / | Mine Water Waste Sugar |
| Vegetable Extract | |

Stain Resistance : Concrete treated with **SOLID CPS** is more resistant to staining. After cleaning, the stain was evaluated according to the following scale:

- 0 - No change in stain, very visible
- 3 - Slight change, but stain still very visible
- 8 - Large change, stain barely visible
- 10 - Stain completely removed and no longer visible

| | | | |
|--------------|----|-----------|---|
| Tomato paste | 8 | Mustard | 8 |
| Soda | 10 | Ice cream | 8 |
| Gum | 8 | Beer | 8 |
| Coffee | 10 | Tea | 8 |
| Wine | 5 | Paint | 3 |
| Ink | 3 | Butter | 3 |

SHELF LIFE & STORAGE

SOLID CPS will have a shelf life of 12 months in unopened container when kept in dry conditions at a temperature between 5 ~ 45 °C. Storage at higher temperature or high humidity may reduce shelf life.

HEALTH & SAFETY

SOLID CPS is non flammable, non toxic water based formulation. It contains no solvents, or harmful levels of VOCs. It is not carcinogenic or mutagenic and may be used in food preparation areas. **SOLID CPS** is odorless during and after application and also allows concrete to breathe.



FACTORY OFFICE

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