



HYCHEM
EPOXY SYSTEMS

HARDENSHINE

Composite densifier & polish

HardenShine is a concrete densifier with a built in polish which is used either with or without a prior application of HardenSeal. It produces a higher level of shine than HardenSeal alone and provides increased resistance to chemical stains.

USE

HardenShine is often used in combination with HardenSeal to produce a glossy finish for ground concrete surfaces.

The system saves costs by reducing the number of grinds required to produce a particular desired finish. When concrete is ground the pores in the concrete are opened up exposing the surface to dirt and chemical penetration. HardenShine seals those pores by the combined action of calcification and resin technology. By sealing the pores, gloss levels are more easily attained and chemical staining is reduced.

For concrete floors not subject to grinding and not requiring extensive prior hardening, HardenShine produces a better sealed surface than often used conventional sodium silicate anti-dusting agents.

HardenShine helps protect colored concrete pigments and dyes either in situ in the concrete or applied as a surface effect.

FEATURES AND BENEFITS

- Improves surface sheen
- Improves surface hardness
- Improves surface stain resistance
- Suitable for standard concrete and ground concrete
- Suitable for concrete terrazzo floors
- Increases light reflectivity
- Saves on floor polish maintenance
- Does not yellow, discolour or flake off
- Allows the concrete to breathe

TYPICAL APPLICATIONS

- Exposed aggregate concrete floors in residential construction
- Exposed aggregate concrete floors in retail establishments
- Exposed aggregate concrete floors, front of house in shopping centres
- Anti-dusting sealer in retail bulk warehouses
- Anti-dusting sealer in distribution warehouses
- Anti-dusting sealer in dry processing manufacturing & assembly plants

PHYSICAL PROPERTIES (@ 25°C)

Composition	Lithium silicate based solution with organic polymer additives
Specific gravity	1.1 kg/litre
Solids content	22%
pH (alkalinity)	11
Coverage (depending on surface)	20-40 sqm/litre

HardenShine improves the chemical resistance of untreated surfaces by around 50% due to its combined densification and surface polymer effect. The system is not designed for use in chemical factories consistently exposed to corrosive chemicals such as mineral acids.

Spillages should be cleaned within an hour of spillage and earlier if possible. When a good cleaning regime is in operation, HardenShine surfaces have good resistance to a wide variety of chemicals met in common usage, such as wine, bleach, soft drinks, motor oils etc.

APPLICATION GUIDELINES

Surface Preparation

Anything which is likely to impede the penetration of HardenSeal must be removed. New concrete is full of water which will prevent penetration, hence new concrete should be allowed to cure for 30 days. Test for the presence of curing membranes and remove if present. Check also for the presence of oil and coatings and remove if present. Ensure that all traces of cleaning agents are removed with a water rinse. Allow the surface to dry and ensure that there is no remaining surface ponded water. Acid stained concrete must be thoroughly neutralized and rinsed.

If the cement surface paste is to be removed to expose aggregate, grind the surface to achieve a minimum 200 grit finish before applying HardenSeal. Further polishing to finer grades is then made easier due to the densification achieved by the prior HardenSeal treatment.

Application

Apply with a low pressure spray pack, mop or soft bristle push broom. The quantity of material required will vary with porosity of the concrete, surface temperature and prevailing atmospheric conditions. Steel trowelled fresh concrete may take as little as 25 sqm/litre whereas cured ground concrete can absorb as much as 10 sqm/litre.

Material is applied in an even manner so as not to cause puddles and brush marks. Brush out any puddles that may have formed due to application of excess material or lower absorptivity. It is not necessary to actively work in the product but coverage must be even. Avoid brooming once the surface has started to dry. A white residue may appear in areas where excess material has been applied. This is to be removed using a stiff bristle brush or floor scrubbing machine once the surface has become completely dry.

Polishing

The area may be polished once the surface is completely dry. For an enhanced shine and stain protection an additional 1-3 coats of HardenShine polish may be applied.

PACKAGING

Kit Size - 20kg

SHELF LIFE

24 months from date of manufacture, stored under shelter at 25°C in original un-opened container.

NOTE: Customer responsibility

The technical information and application advice here given is based on the best information available at the time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation.

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Head Office
3/19 Burns Road, Heathcote NSW 2233
T 02 9548 2186 F 02 9520 2522 E admin@hychem.com.au W www.hychem.com.au