

## CEMI-HARDENER

### FOR PROFESSIONAL USE ONLY

**PACKAGING** 20Litre plastic pail

**DESCRIPTION** Cemi-Hardener is a Deep penetrating silicate liquid hardener, for dust-proofing powdery or friable concrete and masonry surfaces. Hardens and dust proofs new or old concrete, floors, walls, concrete blocks or stonework.

**FEATURES** Deep penetrating liquid hardener  
Prolongs the serviceable life of the “problem” concrete floors before resurfacing is required.  
Helps protect concrete surfaces by hardening concrete surfaces, providing increased durability and resistance to abrasion.  
Economical

### APPLICATION

*MATERIAL SAFETY DATA SHEET MUST BE READ BEFORE OPENING THIS PRODUCT.*

#### PREPERATION & CLEANING

Correct surface preparation is essential to ensure a successful application. Surfaces must be dry and absorbent, free from oil, grease, paint, curing compounds and other contaminants.

#### NEW CONCRETE

New concrete floors that require hardening, sealing or dust arresting treatment should be left until they are at least 28 days old. Dilute Cemi-Hardener 1:1 with clean potable water and carefully apply by broom, spray or squeegee and scrub with a bristle broom until absorption ceases and all pores are filled. Do not allow Cemi-Hardener to puddle. Liquid membrane curing compounds should NOT be used when using Cemi-Hardener, use alternative methods such as polythene film or water curing.

#### OLD CONCRETE, SOFT STONE, CONCRETE BLOCKS

After surface preparation, for the first coat dilute Cemi-Hardener 1:3 with clean potable water and carefully apply by broom, spray or squeegee and scrub with a bristle broom until no more solution will penetrate the surface. Allow first coat to dry for 24 hours before applying the 2nd coat. Repeat procedure for the 2<sup>nd</sup> and 3<sup>rd</sup> coat but changing the dilution rates to; 2<sup>nd</sup> Coat diluted 1:2 with potable water, 3<sup>rd</sup> Coat diluted 1:1 with potable water.

During application DO NOT allow puddles to form or a significant surface build will occur. A glaze or sheen should not form on the surface. Cemi-Hardener is formulated to penetrate, not form a surface coating. Twenty-four (24) hours after the completion of the 3<sup>rd</sup> coat, wash and broom any excess surface material away.

**NOTE:** Surfaces treated with Cemi-Hardener can exhibit a whitish, blotchy appearance. Where the treated surface has been allowed to become wet up to 7days after the final coat, it can become slippery. To overcome these surface conditions, neutralize by brooming a solution of 1 part Hydrochloric Acid diluted in 15 parts of water onto the floor. Hose down after 10minutes and allow to dry.

The above procedure is also necessary before considering over coating with paints, renders, etc. A small test area is recommended prior to application of any subsequent surface finish. Treated surfaces may be opened to traffic when the surface has dried completely and no tackiness remains, usually after 24hours.

## LIMITATIONS

Cemi-Hardener may not work when concrete has been batched with insufficient amounts of cement.

## CLEANING

Clean equipment promptly after use with clean water.

## COVERAGE RATE

Coverage will vary greatly depending on the porosity and texture of the surface of the concrete and its age. Old concrete can take double the quantity of Cemi-Hardener compared to new concrete, as will a very rough profile at the surface. As a guide:

CONCRETE FINISH	OLD/NEW	COVERAGE (Approximate)
WOOD FLOAT	Old	0.17Litre/m <sup>2</sup> (6m <sup>2</sup> /litre)
WOOD FLOAT	New	0.10Litre/m <sup>2</sup> (10m <sup>2</sup> /litre)
STEEL FLOAT	Old	0.12Litre/m <sup>2</sup> (8m <sup>2</sup> /litre)
STEEL FLOAT	New	0.08Litre/m <sup>2</sup> (12m <sup>2</sup> /litre)

## SHELF LIFE

Under normal storage conditions in unopened containers, this material would have a shelf life of 2 years from date of manufacture

## PRECAUTIONS

- Cemi-Hardener is strongly alkaline. Avoid contact with skin and eyes. Wear protective goggles, impervious footwear and gloves when handling
- If poisoning occurs seek medical advice. If swallowed, do not induce vomiting, give glass of water
- Refer to Material Safety Data Sheet for full safety and First Aid instructions.

## PRODUCT WARNING

**On-Crete Australia Pty Ltd** has no control over the use or storage of this product and therefore does not accept any liability in this regard. Any verbal advice given should not be regarded as authoritative information. This information is subject to change without notice, therefore all applicators should ensure they have current information. This product is intended for the use only of skilled tradesmen and where applicable, statutory licensed tradesmen experienced and trained in the use of this product. This product is warranted to be of uniform quality within the manufacturer's tolerance. This manufacturer has no control over the use or misuse of this product, therefore no warranty rests or implied, is or can be made either as to the effects of such use. The manufacturer's obligations shall be limited to replacing product proving to be defective.