for Better Quality & Durability

LH - LITHIUM HARDENER

CETEX LH – Lithium Hardener is a premium mixed silicate. It hardens a wide variety of concrete / marble / stone surfaces. When **LH** is applied, it penetrates the surface and it reacts with the free calcium hydroxide to produce a by-product, which fills up the pores on the surface. Being bigger molecule compared to Lithium Silicate, penetration is lower, hence more suitable for porous surfaces.

ADVANTAGES

- Penetrates into the surface to harden and decrease the porosity of the surface.
- It improves the light reflectance and on polishing the surface results in permanent and attractive sheen.
- Helps reduce damaging alkali-silica reactions (ASR) and protects from weathering and efflorescence
- Results in a tough protected surface that does not dis-colour or show pedestrian/ vehicular wear marks.
- By reducing the pores of the surface, it aids in curing of green concrete.
- Improves the abrasion resistance of the surface.
- It does not cause efflorescence and is more stable than sodium.
- It helps in waterproofing & improves the chemical resistance of the surface.
- Protects the surface against scratching or peeling thus making it dustproof.
- Concentrated for easy transportation and can be easily applied.
- It can be applied in both new as well as old constructions.
- It is economical to use.

PROPERTIES

Total Solids Content	:	29.0 - 30.0% approx.
Specific Gravity at 25°C	:	1.25 +/- 0.02
pH	:	Alkaline
VOC Content	:	Nil
Coverage	:	20 sq. meter / kg (approx.)

APPLICATION METHODS

- Clean the surface before application. If there is coating on the surface, for example curing compound etc., it should be removed. Fill and repair all holes, cracks and deteriorated areas. For best result, the surface should be dry to allow **LH** penetrate the pores and react.
- For good result **LH** is diluted with water in 1:3 ratios. It can be applied on clean surface by using a low-pressure sprayer or by spreading evenly with a soft-bristled broom.
- For Horizontal surfaces, apply enough diluted **LH** to keep the surface wet for 20 minutes. If areas dry out before that, apply more diluted **LH**. In hot, dry or windy conditions dampen concrete before application to prevent flash drying. Remove any dried powder residue using a stiff broom, power sweeper or floor scrubbing machine. For immediate, enhanced shine, buff or burnish the dry concrete surface in both directions using an orbital floor machine or burnisher equipped with an appropriate polishing pad. This is a dry buffing operation.
- For vertical surfaces, apply from the bottom up. For maximum penetration and desired coverage rates, a wet-on-wet application is recommended; retreat within three to five minutes after initial application. Repeated applications should be made until the surface remains moist for a minute or so before solution disappears
- Restrict usage of the treated surface for 8 hours.

PACKING & STORAGE

CETEX LH is available in 60 kg carboy or 250 kg barrel. When stored in an airtight, sealed container in normal conditions has a shelf life of 12 months from date of shipment.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY -The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, the results obtained may differ depending on usage or workmanship.