LD – LITHIUM DENSIFIER

for Better Quality & Durability

CETEX LD is **concentrated premium nano-lithium silicate based densifier/hardener** for cementatious surfaces. Being the smallest stable silica, it penetrates deep in the concrete to produce insoluble calcium silicate hydrate and silica gels within concrete pores. Once pores are filled, silica polymerization takes place on the surface and lithium comes out of the system as insoluble lithium carbonate powder. This results in microscopic, alkali-free silica (glass) layer, which is not possible in other silicate based densifiers. This not only reduces liquid penetration, dusting, but also results in pure silica coating (glass), which has high resistance to abrasion & heat and reduces maintenance.

ADVANTAGES

- No scrubbing. No flushing. No wastewater.
- By reducing the pores of the surface, it aids in curing of fresh concrete.
- Can be applied on any uncoated concrete or mortar finishes in both new as well as old constructions.
- Treated surface is breathable & UV stable, but seals micro-channels against chemical attack and corrosion.
- Helps reduce damaging alkali-silica reactions (ASR) and protects from weathering and efflorescence.
- Penetrates deep into the surface to improve hardness, compressive and flexural strength of surface.
- Alkali free glass formation on surface, thus no “spider web” cracks on surface due to alkali contamination.
- Reduces application time and costs of diamond polishing operations.
- Though it improves gloss and hardness, it does not reduce slip resistance.
- Proper grinding results in a permanent glass like surface gloss which improves with usage.
- Makes the surface better looking and dust-proof. Will not yellow, discolor, peel or flake.
- Cures quickly. Treated surface can be used within four hour of treatment for light usage.
- It is concentrated. Hence economical for transport. Non-flammable. Non-toxic. Negligible odor.
- Reduces maintenance, cleaning costs and repairs. It is economical to use.
- VOC content is nil, thus helps earning LEED points in green building.

PROPERTIES

Total Solids Content	: 24% +/- 1.00
Specific Gravity at 25°C	: 1.18 +/- 0.02
pH	: Alkaline
VOC Content	: Nil

APPLICATION METHODS

- Clean the surface before application. If there is coating on the surface, for example curing compound, oil, dust etc., it should be removed. Fill and repair all holes, cracks and deteriorated areas. For best result, the surface should be dry to touch to allow diluted LD penetrate the pores and react.

- CETEX LD is concentrated material. For better result dilute 1 part LD with 3 parts of soft/potable water. It can be applied on old or new clean surface by using a low-pressure sprayer or brush or by flooding.

- For Horizontal surfaces, apply enough diluted LD to keep the surface wet for 20 minutes. If areas dry out before that, apply more diluted LD. 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 using an orbital floor or burnishing machine equipped with 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; re-treat within three to five minutes after initial application. Repeated applications should be made to ensure the surface remains moist for around 20 minutes.

COVERAGE

On 3 times dilution, 1 kg of diluted material covers 4.0-6.0 square meter for M30 and above grade concrete

PACKING

CETEX LD is available in 60 kg carboy and 250 kg plastic drum. Customised packing can be provided on request.

STORAGE

CETEX LD has a shelf life of 12 months from date of manufacture, when stored in an airtight, sealed container under proper shade away from direct sun and heat.

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.