



LD - Lithium Densifier

for Better Quality & Durability

CETEX LD is concentrated & premium nano-lithium based densifier / hardener for cementitious surfaces. It is safer, faster and easier to apply. It penetrates deep in the concrete to produce insoluble calcium silicate hydrate within the concrete pores. The increased surface hardness imparted by LD drastically improves abrasion resistance, reduces liquid penetration and dusting and simplifies maintenance.

ADVANTAGES

- ✓ No scrubbing. No flushing. No wastewater.
- ✓ Can be applied on any uncoated concrete or mortar finishes in both new as well as old constructions.
- ✓ Treated surface is breathable, but seals micro-channels against chemical attack that cause 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.
- ✓ Provides better abrasion resistance than conventional hardeners.
- ✓ Reduces application time and costs of diamond polishing operations.
- ✓ Though it improves gloss and hardness, it does not reduce slip resistance.
- ✓ Treated surface is breathable, UV stable and maintains natural appearance.
- ✓ Produces a fast permanent surface gloss which improves with traffic and maintenance.
- ✓ Makes the surface better looking and dust-proof. Will not yellow, discolour, peel or flake.
- ✓ Cures quickly. Treated surface can be used within one hour of treatment.
- ✓ VOC content is nil, thus helps earning LEED points in green building.
- ✓ It is concentrated. Hence economical for transport. Non-flammable. Non-toxic. Low odor.
- ✓ Reduces maintenance, cleaning costs and repairs. It is economical to use.

PROPERTIES

Total Solids Content	: 24% (approx.)
Specific Gravity at 25°C	: 1.20 +/- 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.
- LD is concentrated material and can be diluted with 1-3 parts of soft water for every one part of LD. It can be applied on old or new clean surface by using a low-pressure sprayer, roller or brush.
- 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 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; re-treat 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.

PACKING

CETEX LD is available in 60 kg carbuoy and 250 kg plastic drum.

STORAGE

When stored in an airtight, sealed container in normal conditions has a shelf life of 12 months from date of shipment.