

US CRETE LITHIUM

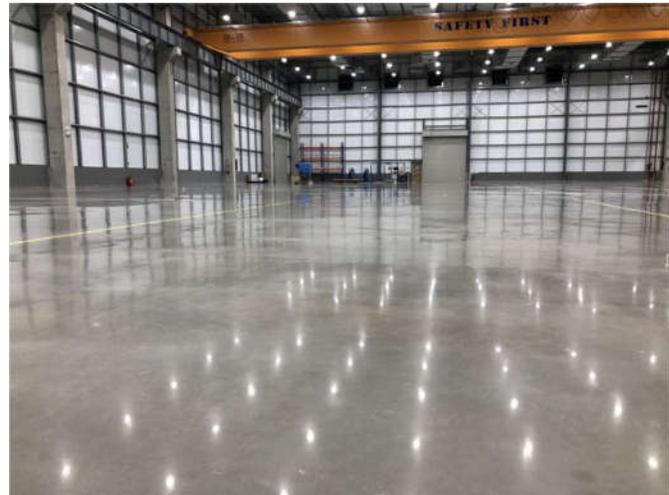
DESCRIPTION

US CRETE LITHIUM is a lithium silicate hardener, a colorless, odorless, and an environmental friendly reactive concrete sealer designed to increase the lifetime and reduce maintenance of concrete floors.

Us Crete Lithium reacts strongly with the free lime in the concrete substrates, solidifying it into a homogeneous concrete mass. The hardened concrete improves its resistance to abrasion thus making it dust-proof and reduces water/oil penetration.

BENEFITS

- Forms a permanent, insoluble bond within the capillaries
- Produces a hardened surface layer that is breathable, dense and abrasion resistant
- Hardened surface is dust-proof as well as stain resistant
- Non - yellowing, non - discoloring product and can resist tire marks
- Mirror like finish when polished
- A water - based, VOC - free and eco - friendly.



RECOMMENDED USE

Use in high traffic areas such as: warehouses, distribution centers, manufacturing plants, textile mills, bottling plants, cold room, food processing plants, canning factories, aircraft hangar, carparks and service garages.

TECHNICAL DATA

Active solid content	16.1%
Density	1.09kg/liter
pH	10.5
TVOC (CDPH Method - LEED v4)	0.5mg/m ³ or less
Flash point	N/A
Freezing point	0°C
Gel time	3 - 4 hours @ 30°C
Hard Cure	72 hours @ 30°C
Hardness	≤ 8 Mohs Hardness Scale
Temperature Resistance	> 80°C
Shelf life	12 months in unopened in dry conditions at 10°C - 25°C
Estimated coverage	Approximately 5 -10 m ² /lit
Packaging	25 Litres
Note: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc... The practical coverage maybe reduced.	



APPLICATION INSTRUCTION

Surface requirement

Suitable substrate will normally be concrete or modified polymer screeds with a minimum compressive strength of 25N/mm² and pull - off strength of 1.5N/mm². Use high pressure water jetting to remove any traces of laitance, dust, dirt and other foreign materials which may impair bonding. Repair damaged concrete, cracks and other imperfections by normal procedure of concrete repair method.

Mixing

US CRETE LITHIUM is a single component product which requires no mixing. However due to storage, the product's active ingredients may have been left sitting for a while. It is then recommended to agitate the drum to stir up the product before use.

APPLICATION

Plain Finish :

Apply US CRETE LITHIUM by spray, mop or simply pour on the concrete to flood surface until saturation but do not allow to form pond. Remove excessive materials by spreading over other untreated areas.

Allow product to react with concrete for about 60 minutes and when it is gelling, spray water mist onto the surface to assist further reactions. Allow product to dry out 2-4 hours depending on the surrounding temperature or just before the product turns whitish. The process is then followed by immediate water washing off with the help of motorized bristle disc in circular motion.

Repeat washing if necessary to avoid formation of whitish salt on the concrete surface which is difficult to remove when fully cured. All excess washing water should be thoroughly removed by mop, vacuum to avoid settlement of the washed out residue which will form loose film on top of concrete surface.

Repeat cleaning if necessary and allow the floor to dry for at least 24 hours before it is opened for traffic.

Mirror Finish :

Apply US CRETE LITHIUM by spray, mop or simply pour on the concrete to flood Surface until saturation but do not allow to form pond.

Remove excessive materials by spreading over other untreated areas. Allow product to react with concrete for about 60 minutes and when it is gelling, spray water mist onto the surface to assist further reactions.

Allow product to dry out 2-4 hours depending on the surrounding temperature or just before the product turns whitish. The process is then followed by immediate water washing off/ grinding with the help of motorized grinding disc in circular motion.

Repeat grinding 3-4 times with different gauge grinding disc until initial gloss of concrete is achieved. All excess washing water/ground sludge should be thoroughly removed by mop, vacuum to avoid settlement of the sludge residue which will form whitish loose film on top of concrete surface.

Repeat cleaning if necessary and allow the floor to dry for at least 12 hours.

While the entire grinding process is carried out wet, it is recommended to dry polish concrete surface using disc or above for best gloss result.

The level of mirror finishing of floor will decide the number of grinding/ polishing cycles needed. Allow floor to cure for at least 24 hours before it is opened for traffic

HEALTH AND SAFETY

Keep out of children's reach

Dispose chemical waste at the specified place.

Although the chemical is not harmful and dangerous, US Crete Lithium is off highly alkaline in nature, use approved protective clothing, gloves and respirator during application and ensure there is adequate entilation.

FURTHER INFORMATION

With a wealth of technical and practical experience built up over many years in our pursuit of excellence especially in the protective, flooring and concrete technology, make US CRETE your partner today! Contact hotline **NOW!**

