



# US CRETE SUPER

## DESCRIPTION

US Crete Super is a protective, penetrating and breathable sealer for concrete floors.

Lithium silicate components of US Crete Super react with the weaker parts of concrete (calcium hydroxide) to create a hard cement stone and fills up the pores while the other reactive components boots the concrete surface.

US Crete Super is water – based, non – toxic, non – hazardous, and VOC compliant in over the world.

US Crete Super is very easy to use with high durability, trace resistance and fast drying.

US Crete Super can be used both indoors and outdoors.

US Crete Super enhances the color intensity of natural, cast stone, integrally colored, dyed or acid stain decorative concrete.



## BENEFITS

Make the surface harder and more abrasion resistant & stain resistant  
Create a beautiful long lasting gloss to the surface, making it much easier to clean.

Easy to apply. Easily penetrates the concrete surface. Us Crete super will not peel or flake like epoxies and other coatings.

After a period of use, may be applied over the existing US Crete Super coating without peeling the old coat like acrylic, epoxy or PU floor.

A water – based, VOC – free and eco – friendly.

Enhances the colors of decorative concrete.



## RECOMMENDED USE

Industry: food production and processing factory, refrigerated warehouse, beverage factory, etc.

Civil works: floor, garage, etc.

Trade: office, store, bank, mall, warehouse, etc.

Entertainment: resort, restaurant, hotel, casino, movie theater,..

National administrative agency, Government building, embassy, etc.

Public work: church, hospital, school, museum, etc.

## TECHNICAL DATA

Active solid content	26.6 %
Density	1.05kg/lit
pH	10.5
V.O.C Contents	<1g/L
Flash point	N/A
Freezing point	0°C
Shelf life	un opened in dry conditions/ 1years
Estimated coverage	60 - 80 m <sup>2</sup> /lit
Packaging	5 litres



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## APPLICATION INSTRUCTION

Us Crete Super will achieved the maximum result if a prime coat of Us Crete Lithium application. Can be applied after that from 15 to 30 minutes.

### Surface preparation

The surface should be clean and free from dust, oil, grease, stains, paint or agents which may prevent penetration of chemicals.

Recommended surface preparation is carried out by sanding the surface in order to get rid of contamination and to open the pores of the surface. For large surface areas, should be used the professional machines with suitable abrasive discs or pads.

### Application of Us Crete Super

Lightly stir before each use. Neither over – dilution nor over mix or bubbles and/or foaming can occur making uniform application more difficult for construction.

Use a pump up sprayer and spray lightly over the top of the area to be treated. Then spread material thinly and evenly using a micro fiber pad. The micro fiber pad or cloth should be dampened with water before application

High proficiency can be achieved through partial application in each 6x6m area. Spread at a rate of 60 to 80 sqm/lit, depending on porosity of the surface. Spread it out and leave it. Do not walk on the surface after construction.

Allow each application to dry at least 15 to 30 minutes between coats. The second application will improve sheen and stain protection. Buffing with a high – speed burnisher (1500 – 2000 rpm) and a heat pad is recommended and will speed up curing time and improve sheen.

Texture and absorption of the surface will determine the final coverage rates of the product. Porous concrete surfaces may require an additional coat for effective cover.

The surface can walkable after 30 minutes of application. Do not allow heavy traffic on the floor and avoid contact with water until 24 hour after application.

Note: Do not over apply. Very thin coat is best.

## MAINTENANCE

If the floor is cleaned well US Crete Super will last for many years. Use warm water for more effective and efficient cleaning. Do not use cleaners such as acidic or have citrus or butyl compounds. Although US Crete Super is chemically resistant and helps reduce staining, some compounds, especially acids, may damage the surface and therefore it may not be suitable for some applications. If unsure, check with US Crete technical representative. Regular maintenance and cleaning will help prolong surface shine. Wipe up any chemical spills as soon as possible.

## CLEAN UP

Clean equipment after use with soap and water. As it is an eco-friendly product, no special treatment methods are needed. Use up the total poured amount of chemical, wipe out excessive chemical or dispose at specified place. Never discharge the chemical into drain hose.

## SAFETY/HEATH INFORMATION

Keep out of children’s reach  
Dispose chemical waste at the specified place.

Although the chemical is not harmful and dangerous, US Crete Super is mildly alkaline and may cause skin and eye irritation.

Fully wear protective equipment during construction. When the chemical splashes into your eye, rinse immediately with water and seek medical advice if the symptoms persist.

In case of oral ingestion, do not try to regurgitate but drink plenty of water and timely seek medical advice.

Avoid contact with eyes and wash away traces of chemical on skin. The surface may be slippery in case of wet chemical.



## CAUTION

Do not let the product freeze. Stir before use. Do not allow standing water to dwell on surface for 07 days following application. Do not allow traffic on surface until it is dry.

US Crete Super will not bridge or fill cracks, and will not salvage honeycombed or structurally unsound surfaces. US Crete Super quickly bonds to most surfaces including metal, wood, glass and paint.

Protect adjacent surfaces. Remove overspray quickly with a damp cloth and soap.

Always do a test patch before beginning the job to verify coverage appearance, and surface material variations.

Physio – Mechanical properties with US Crete Super	Internal test
<b>Abrasion test</b>	The abrasion resistance increases by 60% for concrete grade 250. Measuring method and instruments: Taber abraser, H22 wheel, 1000 cycles, 1000 gram load ASTM D 4060 – determining organic coating layer with Taber device).
<b>Hardness test</b>	Moh’s hardness increases from level 4 to level 7 for concrete grade 250.
<b>Gloss test</b>	The gloss increases dramatically from 4.5 GU to 82 GU when the surface is chemically treated (Gloss measurement with geometrical angle of 85 degree as per ASTM D523 – standard reflexive gloss testing method).

