

**DESCRIPTION**

CEMGUARD HB 500 is a hybrid coating which is synthesized of inorganic component as a main component and organic component as a subcomponent with molecular unit reaction. It simultaneously has both inorganic properties such as fire resistance, diamond hardness, acid resistance and organic properties such as water resistance, alkali resistance, toughness and shock resistance. It is an eco-friendly product which contains very little hazardous organic solvent.

**USES**

CEMGUARD HB 500 provides exceptional adhesion to a variety of substrate including prepared old/new concrete floors which are free from oil, stain and other contaminants. Area of application includes car parking lot, aircraft hangar, machinery room, utility room, maintenance room, factory, warehouse, chemical lab, general office and food processing plant.

**BENEFITS**

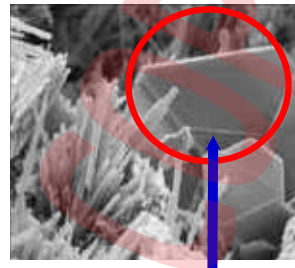
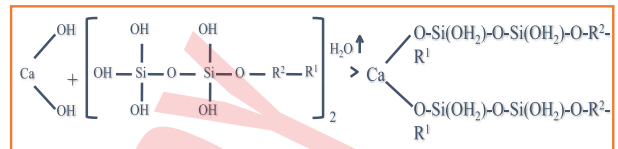
- VOC compliance
- Chemical/oil resistant.
- Anti stain, Anti-Graffiti.
- Fire resistant – cured coating is nonflammable (>500 °C).
- Extremely hard wearing, behave like glass when fully cured.
- Water tolerant – product is not sensitive to ground moisture.
- Exceptionally good adhesion even on ill prepared, difficult substrates.
- Product is not sensitive to high humidity and low temperature during application.

**COLOR**

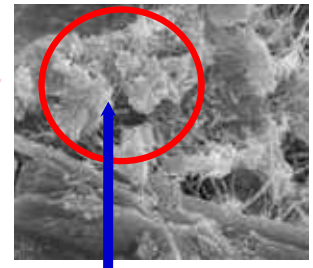
Available in standard colors and clear.

**FINISH**

Semi gloss

**CEMGUARD HB500 STRUCTURE**

Calcium Hydroxide



Transformation to Calcium Silicate Hydrate and other organic compound.



Shopping Center Carpark, Bangkok



University Carpark, Cambodia

**Technical Data :**

No. of Components			2
No. of Coats Recommended			2-3
Recommended Dry Film Thickness			N/A
Mixing Ratio (By Weight)			Pigmented 11 : 7 Clear 11 : 3.14
Estimated Coverage	Pigmented	10m <sup>2</sup> /kg/coats depending on porosity of substrates	
	Clear	12m <sup>2</sup> /kg/coats depending on porosity of substrates	
Curing Time	Tack-free time	2 - 4 hours @ 30°C	
	Recoat	4 hours @ 30°C	
	Vehicular Traffic	8 hours @ 30°C	
Bond Strength	>2.5 N/mm <sup>2</sup> ( normally fail at concrete)		
Compressive Strength	>than concrete		
Temperature Resistance	0°- greater than >500°C		
Abrasion Resistance	0.1 - 0.5 ml/cycle (1kg, H-22 Wheels)		
Pot Life	20 min at 30°C		
Packaging	Pigmented	Part A : 11kg; Part B : 7kg	
	Clear	Part A : 11kg; Part B : 3.14kg	

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

**WEBSITE**

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# CEMGUARD HB 500

A REACTIVE NANO SILICATE HYBRID COATING

**CEMKRETE**<sup>®</sup>

ISO 9001 & 14000 CERTIFIED

## APPLICATION PROCEDURE

### SURFACE PREPARATION

Substrate to be coated should be structurally sound, clean, and free from loose particles, oil, grease and other contaminants.

### APPLICATION

Apply mixed material by short nap roller or spray. Take precaution not to have material build up on joints or it may create roller marks or worse, a difference in color tone. Roller must be applied in uniform strokes and directions to avoid joint marks.

### MIXING

As the material may settle after long storage, it is very important to stir each component separately using a slow speed (750rpm) electric drill fitted with a paint mixer or a wing type mixing paddle. Then pour the entire content of Part B into Part A and continue to mix for 2-3 minutes until homogeneous before use. Over mixing must be avoided to minimise air entrainment and shortened pot life.

### THINNING

Thinning is not recommended but if required, may use a max 3% of CEMGUARD HB 500 diluent to improve workability.

### CLEANING

Clean all tools and application equipments immediately after use with thinner. Hardened / cured material can only be removed mechanically.

### TEMPERATURE

Cemguard HB 500 should not be applied on substrate with temperatures <10°C or >30°C.

## STORAGE & SHELF LIFE

Shelf life of approx 6 months if stored in dry conditions in its original unopened packaging at 30°C

## PRECAUTION

Electrical work and open fire are prohibited when applying CEMGUARD HB 500. Alcohol in CEMGUARD HB 500 is flammable during application and even after 4 hours from application.

## MAINTENANCE

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

## SAFETY

Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Do not take internally. Wear skin and eye protection. Conform to local regulations for disposal. For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

## FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted or test product at site to determine product compatibility.

CEMKRETE have a wealth of technical and practical experience built up over many years in our pursuit of excellence in flooring and concrete technology, customers are welcome to call our Technical Service Department.

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