

CEMGUARD HB 500 Anti Slip

A REACTIVE NANO SILICATE HYBRID ANTI SLIP COATING

CEMKRETE®

ISO 9001 & 14000 CERTIFIED

DESCRIPTION

CEMGUARD HB 500 Anti Slip 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 has been designed to offer anti slip property while also being an eco-friendly product which contains very little hazardous organic solvent.

USES

CEMGUARD HB 500 Anti Slip 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

- Slip resistant.
- 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.

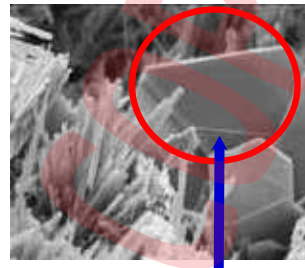
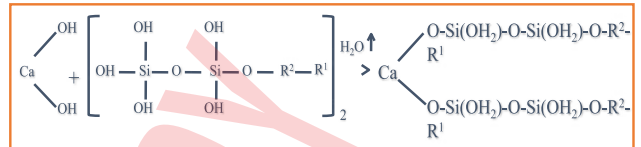
COLOR

Available in standard colors and clear.

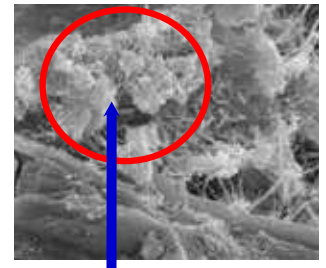
FINISH

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 ² /kg/coats depending on porosity of substrates	
	Clear	12m ² /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 ² (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.

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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 minimize air entrainment and shortened pot life.

THINNING

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

CLEANING

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

TEMPERATURE

CEMGUARD HB 500 Anti Slip should not be applied on substrate with temperatures $<10^{\circ}\text{C}$ or $>30^{\circ}\text{C}$.

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 Anti Slip. Alcohol in CEMGUARD HB 500 Anti Slip 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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