

DESCRIPTION

CEMGUARD HB 500 R is a chemical resistant nano silicate hybrid coating which has excellent acid and alkaline resistance. The cured film is tough and thermal shock resistant. It is an eco-friendly product as it contains very little hazardous organic solvent.

USES

CEMGUARD HB 500 R is recommended to be used with prepared old/new concrete floor/wall which is free from oil, stains and other contaminants. Areas of application includes chemical lab, battery room, acid/alkaline tank, tank farm lining, sewerage tanks, galvanizing plant and other chemical prone areas.

BENEFITS

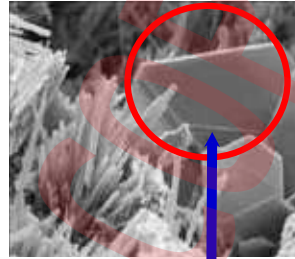
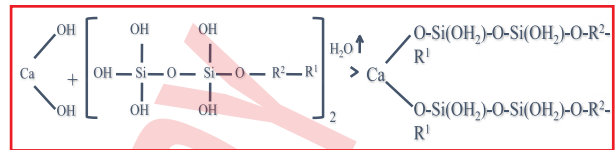
- VOC compliance
- Chemical resistant.
- Fire resistant – cured coating is nonflammable (>500 °C).
- Extremely hard wearing, behaves like glass when fully cured.
- Water tolerant – product is not sensitive to ground moisture.
- Extremely good adhesion strength even on ill prepared & difficult substrates.

COLOR

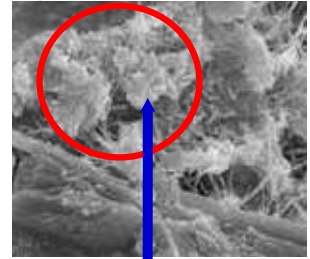
Clear

FINISH

Semi-gloss

CEMGUARD HB500 STRUCTURE

Calcium Hydroxide



Transformation to Calcium Silicate Hydrate and other organic compound.

**Technical Data :**

No. of Components				2
No. of Coats Recommended				2-3
Recommended Dry Film Thickness				N/A
Mixing Ratio (By Weight)			Clear	14 : 4
Estimated Coverage	Clear	10 - 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)			
Temperature Resistance	>500°C			
Compressive Strength	> than concrete			
Abrasion Resistance	0.1 - 0.5 ml/cycle (1kg, H-22 Wheels)			
Pot Life	20 min at 30°C			
Packaging	Clear	Part A : 14kg	Part B : 4kg	

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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CEMGUARD HB 500 R

A CHEMICAL RESISTANT REACTIVE NANO SILICATE HYBRID COATING

CEMKRETE®

ISO 9001 & 14000 CERTIFIED

SPECIFICATION CLAUSE

Substrate to be coated **CEMGUARD HB 500 R** must be clean, sound and free from any contamination. Mechanical grinding should be employed to prepare surface before coating. **CEMGUARD HB 500 R** is also a self-primer product. Thus if using it as a stand-alone product, all prepared substrates should first be primed with **CEMGUARD HB 500 R** before topping with further more coats of **CEMGUARD HB 500 R** at a spreading rate of 10 - 12m²/kg/coat.

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 leave roller marks or worse, creating a difference in color tone. Roller must be applied in uniform strokes and directions to avoid joint marks. For chemical tank lining, spray application is preferred.

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.

CHEMICAL RESISTANCE

CEMGUARD HB 500 R has excellent resistance to a wide range of industrial chemicals, please consult Cemkrete for specific information. As a general guide, **CEMGUARD HB 500 R** has been tested as follow,

	Temperature	Result	Test Period
Citric Acid 15%	40°C	Pass	15 days
Hydrochloric Acid 65%	40°C	Pass	15 days
Sulphuric Acid 80%	40°C	Pass	15 days
Lactic Acid 15%	40°C	Pass	15 days
Sodium Hydroxide 50%	40°C	Pass	15 days

THINNING

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

CLEANING

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

TEMPERATURE

Cemguard HB 500 R 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 and in its original unopened packaging at 30°C.

PRECAUTION

Electrical work and open fire are prohibited when applying **CEMGUARD HB 500 R**. Alcohol in **CEMGUARD HB 500 R** 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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