



CL – CRETE 900

CHEMICAL CONCRETE HARDENER

DESCRIPTION

CL – CRETE 900 is an aqueous blend of activated sodium silicate. It penetrates deeply into the capillary pores of the concrete and reacts with the free lime within the concrete to produce a hard and dust reduction finish concrete. The reaction will take long time to significantly show the hardness. It acts as a concrete treatment and not a surface coating, and thus will not change the nature colour of the concrete. CL-Crete 900 can be applied on old and green concrete, but not suitable for natural stone.

USES

Areas of application are concrete floors, walls, slabs, bridges, concrete road surfaces, concrete pipes, basement walls and the like.

FEATURES

- Non-toxic
- Good penetration
- Easy to apply
- Harden the concrete and thus increase the compressive strength and improves the abrasion resistant
- Great reduction of dust on finish surface
- Can be applied on damp surface

TECHNICAL INFORMATION

Appearance : Clear to cloudy greyish liquid
Specific Gravity : Approx. 1.4 g/ml
pH : Approx. 11
Alkaline as Na₂O : 8.80 – 9.40 % (wt)
Silica Content as SiO₂ : 29.00 – 30.10 % (wt)

Comparison data of compressive strength of 1:3 mortar cube with and without treated with CL-Crete 900: -

Curing / day	Compressive Strength of Mortar, N/mm ²	
	Without treated with CL-Crete 900	Treated with CL-Crete 900
32	29.3	34.4
64	34.5	39.1
108	35.0	42.5
225	43.0	54.5

Comparison data of abrasion resistant of 1:3 mortar cube with and without treated with CL-Crete 900 after 500 days ageing using wheel H-22 @ 1kg load: -

No. of Cycle	Weight Loss / g	
	Without treated with CL-Crete 900	Treated with CL-Crete 900
500	3.89	1.46
1000	8.35	2.82
1500	13.43	3.90
2000	17.47	5.16

MIXING RATIO AND COVERAGE

CL-Crete 900 must be diluted with water in the ratio of 28kg of CL-Crete 900 with 56kg of water. The latter is good for a total coverage is 840m². Ensure that the mix is homogenous prior to application.

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SURFACE PREPARATION

Substrates to be treated must be at least 14 days of curing. Surface must be free of grease, wax, oil, paint, dust and loose adhering materials. Ensure there is no standing water on the surface prior to application.

APPLICATION

CL-Crete 900 can be applied by spray or roller broom. Cover wood / glass / metal surfaces with tape or covering sheet to avoid contact with hardener as it may cause discolouration. A minimum of 2 coats should be applied. Apply first coat as per recommended dilution and let it dry, usually at least 2 hours depending on climatic condition. After the first coat has dried, then only apply second coat. After the hardener is applied, do not step on the surface until it is fully dry. Usually allow a period of 24 hours, longer time might be needed at cooler place.

TOOL CLEANING

Tools can be easily cleaned with water.

HANDLING PRECAUTION

CL-Crete 900 is a non-toxic liquid but alkaline. Wear suitable protective clothing, gloves, goggles and safety boots while handling and using. Avoid contact with skin and eye. In the event of skin / eye contact, immediately wash thoroughly with clean water and consult physician.

SHELF LIFE

2 years in an unopened container and stored in cool dry place.

PACKING

Available in 28kg pail and 280kg drum.



Disclaimer: Specification are subject to change without notification.



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