

## DESCRIPTION SHEET

BEST LITHIUM-SILICATE SEALER, HARDENER AND DENSIFIER

## DESCRIPTION

NANO C-PRO-GARD+ is a Lithium hardener, densifier, and sealer with film former for concrete and other mineral substrate.

NANO C-PRO-GARD+ react with siliceous material, lime in the concrete pores forming a strong tri-calcium-silicate compounds. This compound fills the pores and creates a sealed protective surface against alkali water and other harsh chemicals. The treated surface provides excellent resistance against damage from water, salt and high traffic resistant.

NANO C-PRO-GARD+ has been created to be safer, faster and easier to apply than other silicate hardeners which contribute to surface none desired Alkali-Silicate-Reaction. The treated surface will be dust free and easy to clean, and maintain no with need for waxing.

## ADVANTAGE

- Excellent stain resistance and water repellent
- Excellent abrasion resistance
- LEED program contribution Zero VOC
- Higher solid, Save money & time on polishing operations
- Deep penetration to provide better initial and ultimate hardness
- Salt Protector and Dust Proof
- Improves performance, shine and reflectance of all mineral substrate
- Extremely hard, higher crosslinking, water repellent surface and easy to maintain without wax

## APPLICATION INSTRUCTIONS

The surface must be dry, not frozen and free of oil, grease, dust, silicone, wax or any other contaminants.

- Mechanical preparation highly recommended if chemical preparation is the last choice, neutralization and several rinses are necessary before high pH degreaser.
- Try a small test to see the absorption of the slab and to determine the coverage rates to be maintained over the entire surface.
- Acid stained slab: several neutralizations and rinsing are necessary prior to the application of NANO C-PRO-GARD+.

## PRECAUTIONS

- Consult MSDS before use
- Mix each time before use for best results
- Remove all wax sealers before applications
- Do not use on floors when people are around you
- Temperature of the substrate must be 3° higher than Dew point
- Do not apply if the temperature of the substrate is below 13°C /55°F
- Protect all surfaces from the splash and wind drift. Use a polyethylene or other protective material

## QUALIFICATION AND QUANTIFICATION

Color: N A  
VOC: 0 gramme/ litre  
Mixing Ratio: NA, 1 K system. Pot Life: NA, 1 K system.  
Specific gravity (ASTM C 185) : 1.15 g/ml  
PH: 11.8 (contain Lithium silicate nanoparticle technology)

Pourcentage of Solid: 23 % (highest in the market)  
Slip resistance: (ASTM C1028)  
Doesn't change the result, but we observed slight amelioration on the wet treated concrete.  
Pot Life: NA, 1 K system.

SURFACE/GALLON					
Épaisseur (mils)	1	4	8	10	20
Sq. ft/Gallon	1600	400	200	160	80

Physical Properties	Untreated concrete	Treated concrete
Compression strength ASTM C 579 Mod.	34.5 MPa (5002.5 PSI)	36.7 MPa (5321.5 PSI)
Flexural Strength ASTM C 78	07.5 MPa (1087.5 PSI)	10.8 MPa (1566 PSI)
Water permeabilité ASTM D 570	4.65 E-10 (cm/sec)	8.1 E-11 (cm/sec)
Tensile strength ASTM C 307	02.5 MPa (362.5 PSI)	03.5 MPa (507.5 PSI)
Anti slip resistance ASTM C 1028 (dry surface)	0.70	0.74
Anti slip resistance ASTM C 1028 (wet surface)	0.45	0.44

## TECHNICAL SERVICES AND WARRANTY

For assistance, consult a representative of PHX INDUSTRIES products. The information contained in this data sheet is based on trials that we believe valid. However, when using the conditions depending on the application of our control. The seller and/ or the manufacturer disclaim any responsibility except to replace the product when proven defective.