



MIRAGARD NANOGLASS EXECUTIVE VIEWPOINT



WHAT?

NanoGlass is a clear, single component, water-based, lithium-fortified potassium colloidal silicate cure and seal compound that integrally waterproofs and densifies new and existing pool and spa plaster finishes. Based on superior inorganic mineral technology, Nano Glass is also suitable for other cementitious materials such as concrete, mortars and masonry.

WHY?

The interaction between pool plaster and pool water is ongoing. Ensuring a consistent pH and total alkalinity within a safe range is widely recognized as crucial for safeguarding not only your pool plaster but also various components of your swimming pool. Similarly, it's common knowledge that when water chemistry goes awry, your pool plaster may incur damage or exhibit undesirable behavior. By significantly reducing the calcium hydroxide and effectively filling the voids and capillaries with Nano Glass, the application significantly reduces chemical interactions between the plaster and pool water.

HOW?

NanoGlass converts calcium hydroxide into calcium silicate hydrate to fortify the pool finish

WHERE?

- Pool & Spa Plaster
- New & Existing Plaster Finishes
- Marcite & Polished Plaster
- Exposed Quartz & Pebble Finishes



Trevor Foster
Western Sales Director
310-766-1784

MANUFACTURED IN CA , TX ,NJ

West Coast
310-886-9100

Central
210-888-0449

East Coast
908-245-2800

customerservice@cpcmail.net

Miracote.com / nanoglass

FAQ

Can you oversaturate the pool finish material with Nano Glass?

The porosity and consistency of the applied pool plaster will dictate that just as new or existing concrete will. Some areas will absorb less and some more. If the installer sees the material absorbing faster in certain areas spray on some more if it doesn't run down vertical surfaces or pond in horizontal areas. Where excess accumulation is observed on the 2nd application, immediately roll the excess to a drier area or soak up with a dry rag.

Can it be removed from the surface?

Yes. Using mechanical abrasion or light acid scrub. Might have to polish if the previous two actions do not remove.

Will Nano Glass Change the appearance of the pool finish, particularly a pigmented pool finish?

The lithium/potassium chemistry blend will not affect the appearance of pigmented cement-based materials which is one of the primary advantages of this technology.

Is it possible for the Nano Glass to penetrate the pool finish material and enter the pore structure of the concrete shell?

Although we have not conducted any testing regarding this. depending on the porosity of the plaster and underlying concrete shell it certainly could. If so, this would not cause any harm to the bond-line of the plaster-to-concrete shell.

Does the age of the pool finish material affect the performance of Nano Glass in any way?

That possibility exists especially if pool water chemistry was compromised with insufficient calcium content which could lead to the leaching of the mineral compound silicates require for chemically reacting with calcium hydrate (water-soluble) to convert into calcium silicate hydrate (water insoluble). Nano Glass will not bring back color after spot etching has occurred.

Does Nano Glass react differently with older and newer pool finishes?

Nano Glass will react with older pool finishes as long as calcium hydrate is present. Due to the previous question's answer it is very likely not to the same degree. However, since the lithium component is self-reactive there will be pretty equal reaction in the near surface of the plaster finish.

Can Nano Glass be applied to a pool finish that is less than 30 days old?

Yes - applying immediately upon release of bleed water is the best time to apply as it will act as an internal curing compound that maintains moisture balance for thorough hydration of the plaster cement paste. Will decrease plastic shrinkage (check cracking).

Can exposure to muriatic acid negate the affect of Nano Glass or breakdown the crystal structure over time?

Acid resistance is much improved due to the conversion of calcium hydrate to calcium silicate hydrate. Also, keep in mind that the depth of protection provided by lithium/potassium silicate is much superior in comparison to sodium silicate which has inferior penetration benefits. But yes, if left exposed to high concentrations of acid over extended period of time can result in breakdown of the plaster.

Typically, does Nano Glass alter the color in pigmented plaster?

No. That again is an advantage of lithium/potassium chemistry.

Has Nano Glass ever failed in the field or testing?

Only if the pool was not neutralized properly after acid cleaning.

Is it possible to create trapped moisture condition/hydration issue with a pool finish that has been densified with Nano Glass?

No. There is no affect regarding moisture vapor permeability of the plaster.