



Technical Data Sheet (TDS)

Product: GURTEX[®] SG211

WATER-BASED NANO-CEMENT SEALER

Chemical description	: Single component water-based, nano-cement osmotic crystalline waterproofing sealer.
Supplier	: ASA New World Trading Pte. Ltd
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Revision	: 14 March 2023 (1)

A) Description:

Water-based nano-cement osmotic crystalline waterproofing sealer are made of nanoscale silicones and special waterproof emulsion that penetrates through the surface of the concrete. The surface tension of this product is low which is excellent for penetration into the concrete interior. As it goes into the cement, it forms of a mesh hydrophobic structure, giving the concrete surface and beneath it a long-term water repugnance. This also reduce water molecules and chlorine ions and other harmful component's Intrusion hence preventing corrosion, cracking, powdering of concrete structure, extend the use of concrete.

B) Product features:

- **Product characteristics:** This product is a milky white liquid and ready-to-use; can be sprayed or brushed. It is high-efficiency waterproof and impermeable in performance.
- **Strong penetration:** Laboratory test showed that the average depth of penetration of this product in the C40 concrete inside up to 6-10mm.
- **Excellent waterproof protection:** Concrete coated with this product, the surface will behave like lotus leaf-like water repulsive effect, rainwater cannot penetrate. The waterproof protection ability is improved.
- **Improve the durability of mortar and concrete:** it can effectively prevent the erosion and protection of water, alkali, salt and other harmful substances, the foundation and rebar are not corroded, hence the durability of concrete is improved.
- **Does not produce color shading:** This product works in between the concrete air gaps and internal chemical reaction to form a permeable hydrophobic protective layer; it does not produce color change and affects the appearance of concrete structure.
- **Good breathability:** does not affect the moisture volatility inside the concrete structure, it effectively maintains the strength and resistance of the concrete structure for a long duration.
- **Environmentally friendly:** It uses water as a dispersion medium, free of volatile toxic and harmful solvents.

C) Scope of application:

This product can be widely used in a variety of mortar, concrete, and other project for waterproof protection, can effectively avoid water and harmful parts of various types of mortar and concrete structure erosion, usually applicable to the project includes:

- Concrete waterproof protection works such as bridges, elevated buildings, subways, and tunnels.
- Dams, Pools, ports, large reservoirs, protective embankments, coaster harbor waterproof protection and other types of water storage projects.
- Concrete waterproof protection works such as grain silos and cement warehouses.
- Airport pavement, highways, high-rise buildings, and other types of basic concrete waterproof protection projects.
- General civil concrete building exterior walls, roof waterproof protection works.
- Protection project of all kinds of premixed mortar and dry powder mortar and enhancement Protection works.

D) Application:

Clean and prepare all surfaces, before any application, with high a pressure cleaner. Stir the product SG211 milky solution thoroughly. Paint or spray application (6 to 8 m² per Kg), wait for it to surface dry before carrying out other surface décor work. Minimum drying time between 6 and 24 hours, pending on the actual surrounding condition. Tropical and high humidity areas, a minimum of 24 hours drying time required. Wash and clean the applicated surface before any other décor applications.

E) Storage and warranty:

This product is milky white liquid, 5KG and 20KG packaging. Storage to avoid direct sun lights and rain, 5-40 degrees C sealed storage. Self-made The shelf life is 12 months from the date of production.

Technical Parameters:		Index	
Number	Test	W	S
1	PH	The specified value ± 1	
2	Solid content, % \geq	20	5
3	Stability	No layering, no drift oil, no obvious precipitation	
4	Absorption ratio, % \leq	20	
5	Permeable \leq	Standard status	2mm, no water, no color change
		Heat treatment	2mm, no water, no color change
		Low temperature treatment	2mm, no water, no color change
		Ultraviolet light	2mm, no water, no color change
		Acid treatment	2mm, no water, no color change
		Alkaline treatment	2mm, no water, no color change

Created for Gurtex® SG series of waterproofing, anti-corrosion and heat insulating polymer materials.

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