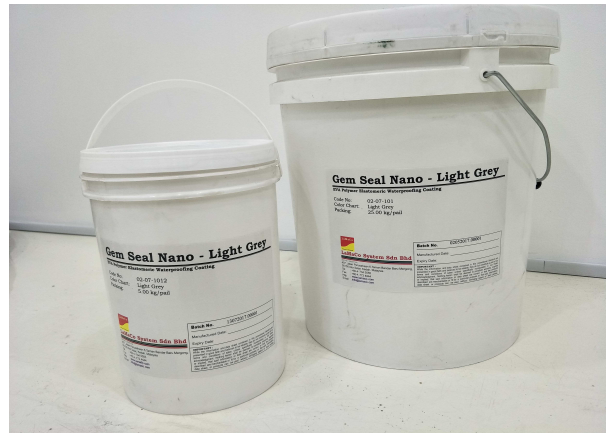


Liquid-Cold Applied Elastomeric Waterproofing Membrane.

New Technology EVA Polymer Water Base of Seamless Elastomeric Waterproofing Coating. No Toxicity & No Solvent Contains. Apply on R. C. Basement Wall Surface & Toilet Floor Slab.



Uses

Gem Seal Nano is a liquid, cold-applied seamless elastomeric waterproofing membrane between-slab system, which provides superior protection against the penetration and lateral movement of water. It comes in a variety of grades for different types of applications.

Use **Gem Seal Nano** above grades between two-course concrete, between masonry construction and rubber toppings, and for exterior below-grade waterproofing masonry. Uses include almost any application where migrant or stationary water is an actual or potential problem, such as parking garages, pools, plaza decks, shower stalls, bridges, mechanical rooms, fountains, wet rooms, highways, balconies, below-grade slab between-floor waterproofing for high-rises, walls, culverts, around drains, dams, reservoirs, concrete tanks, and other similar areas that require superior waterproofing.

Compare of Elastic Elastomeric Waterproofing Coating ~ Flexible Cementitious Waterproofing

	One Part Seamless Elastomeric Waterproofing Gem Seal Nano	Two Part Cementitious Waterproofing A	Two Part Cementitious Waterproofing B	Two Part Cementitious Waterproofing C
Product Name	Gem Seal Nano	A	B	C
Packing in Kg	25.00 kg Bag	36.00 kg Set	22.50 kg Set	25.00 kg Set
Packing ~ Litre	20 Litre Bag	20 Litre Set	12 Litre Set	12.5 Litre Set
Part A	Single Component	10 kg of Liquid	5 kg of Liquid	5 kg of Liquid
Part B		26 kg of Powder	17.5 kg of Powder	20 kg of Powder
Ratio Mix	None	1.00 ~ 2.60	1.00 ~ 3.50	1.00 ~ 4.00
Density	1.28/kg/cm ³	>1.80/kg/cm ³	>1.85/kg/cm ³	>2.00/kg/cm ³
Elongation %	50-100% Excellent	None	None	None
Bond Adhesion	99% in Bond Excellent	88% in Bond	83% in Bond	80% in Bond
1mm thick Test of Performance	0% of Light Gap Penetrations	10% of Light Gap Penetrations	15% of Light Gap Penetrations	19% of Light Gap Penetrations
Price in US\$/Litre				

Type

Gem Seal Nano is a one component moisture-curing, pure **Vinyl Acetate-Ethylene Copolymer EVA** coating specially formulated for hand application by roller or spray to vertical and horizontal surfaces. It is applied directly from the container and requires no mixing.

ADVANTAGES

- Permits nominal expansion and contraction without losing bond to the substrate, Maintains flexibility.
- Protects structurally sound, occupied area from water penetration, and Superior water repellency.
- Contains no external plasticizers, excellent low temperature flexibility.
- Demonstrates excellent resistance to bacterial attack and the deteriorating effects of many acids, alkalizes.
- Eliminates elaborate surface preparation, costly time-consuming lapping, seaming, and precutting.
- When properly applied, **Gem Seal Nano** offers unparalleled economy and waterproofing protection.

PROPERTIES OF SPECIFICATION**(Worldwide Standard System)****Test Data Property*****Gem Seal Nano****(Cured)**

Shore A hardness (±5)	45-55	ASTM-D-2240
Tensile strength, psi (±25)	75	ASTM-D-412
Elongation at Break %	50-100	ASTM-D-412
100% Modulus, psi (±10)	30	ASTM-D-412
Minimum recovery %	99	
Service temp, range	-40 ° F to + 150 ° F	
Weather meter,	No cracking	ASTM-G-26
Transmission, perm inches	0.12	ASTM-E-96
Flame Spread	5	ASTM E 84
Smoke Density	5	ASTM E 84
Wind-drive rain (98 mph)	pass	TT-C 555 B
Fungus and Mildew resistance	Film totally absent of	
Growth after testing		

Method of Application

Surfaces should be structurally sound, clean, and free from loose particles, oil, grease, or any other contaminants. Cement laitance, loose particles, mould release agents, curing membranes, and other contaminants must be removed by wet grit blasting, high pressure water jetting (approx. 150 bars) or such other effective methods. Fill surface irregularities such as below holes, honeycombs etc., with as Cem Strength repair mortars to achieve a smooth and level surface. Saturate the prepared substrate with clean water before applying **Gem Seal Nano**.

Placing It is extremely important that the area being treated is shaded from direct sun rays and wind to prevent rapid drying of the coating. Apply **Gem Seal Nano** evenly with a stiff brush or by a spray, onto the prepared surface, to give a continuous film. The total film build up should be 1.50 to 1.75 mm on vertical OR overhead surfaces and 0.75 to 1.5 mm in case of horizontal surfaces which should be built up in at least two coats, applied one day apart. To avoid pin holes, apply the second brush coat at right angles to the direction of first coat. In hot climates, it may be necessary to retard the setting time of **Gem Seal Nano** to minimize the risk of frequent choking of the spray nozzle.

Available of Color Standard Color: Gray
Special Color: White, Blue, Yellow, Orange, Red, Green & Brown

Packing: **20 Litre bag or 25.60 kg bag**
10 Litre bag or 12.80 kg bag
05 Litre bag or 06.40 kg bag

Thickness Require **Floor Surface: >1.00mm to 1.50 mm**
Wall Surface: >1.00 mm

Estimating Data The minimum recommended coverage of
Gem Seal Nano 0.64/kg/m² x 1 Layer 0.50mm thick film coat.
Gem Seal Nano 0.64/kg/m² x 2 Layers 1.00mm thick film coat.
Gem Seal Nano 0.64/kg/m² x 3 Layers 1.50mm thick film coat.

Toilet Slab	1.28 ~ 1.92 kg/m ²	(Without reinforced woven-mat)
Basement Floor	1.92 kg/m ²	(With reinforced woven-mat)
Basement Wall	1.28 ~ 1.92 kg/m ²	(With reinforced woven-mat)
Flat Roof	1.92 kg/m ²	(Cement Screed, without reinforced woven-mat)
Flat Roof	1.92 kg/m ²	(Cement Screed, with reinforced woven-mat)
R.C Gutter	1.92 kg/m ²	(Cement Screed Require, with reinforced woven-mat)

Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore material requirement is approximately 1.92kg/m² until 1.92kg/m² for 1.00 mm ~ 1.50 mm thick coating.

**Internal Applied: Toilet/Bath Room Slab
(3 to 5 Years Warranty System)**

- A) Applied 0.15 kg/m² of **Gem Primer** coat on all types of concrete, mortar or timber surfaces
- B) 0.64 kg per sq. Meter for First Coats of **Gem Seal Nano**
- C) 0.64 kg per sq. Meter of **Gem Seal Nano**
- D) After two coats have been cured, the finish coat and using roller to applied 0.64 kg per sq. Meter of **Gem Seal Nano**
- E) Total thickness: 1.50mm
- F) 50mm thick of Cement Screed

- G) Install of Tiles or Others

**External Applied: R. C Flat Roof or R. C Gutter or Basement Floor/Wall
Light-Traffic Waterproofing System
(3 to 5 Years Warranty System)
Flat Roof with 38-75mm thick Cement Sand Screed.**

- A) Applied 0.15-0.25 kg/m² of **Gem Primer** coat on all types of concrete, mortar or timber surfaces
- B) 0.64 kg per sq. Meter for First Coats of **Gem Seal Nano**
- C) Laying a layer of reinforced **"Woven-Mat"** for High Performance System.
- D) 0.64 kg per sq. Meter of **Gem Seal Nano**
- E) After two coats have been cured, the finish coat and using roller to applied 0.64 kg per sq. Meter of **Gem Seal Nano**
- F) Total thickness: 1.50mm
- G) 50mm thick of Cement Screed

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

The General Term & Conditions

All recommendations for use of our product, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for this intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefor. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

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