

# Gem Seal EVA400

## EVA Polymer Specification Data Sheet

### Liquid-Cold Applied Elastomeric Waterproofing Membrane.

#### New Technology of Elastomeric Coating

#### EVA Polymer Water Base

#### No Toxicity & No Solvent Contains

#### For Reinforcement Concrete, R. C. Flat Roof, R. C. Basement Wall Surface & Toilet Floor Slab.

#### Uses

**Gem Seal EVA400** 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 EVA400** 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.

#### Type

**Gem Seal EVA400** 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 EVA400** offers unparalleled economy and waterproofing protection.

#### Available of Color

Standard Color: White & Gray

Sky Blue, Yellow, Orange, Red, Green, Black, Pink & Brown

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### PROPERTIES OF SPECIFICATION

(Worldwide Standard System)

#### Test Data Property\*

**Gem Seal EVA400**

(Cured)

Shore A hardness (±5)	72	ASTM-D-2240
Tensile strength, psi (±25)	203	ASTM-D-412
Elongation at Break %	400	ASTM-D-412
100% Modulus, psi (±10)	80	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 EVA400**.

#### 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 EVA400** 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 2.0 to 2.5 mm on vertical & overhead surfaces and 1 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 EVA400** to minimize the risk of frequent choking of the spray nozzle.

#### Estimating Data

The minimum recommended coverage of **Gem Seal EVA400** is 0.75 to 3.5 kg/m<sup>2</sup> to get 0.55 mm to 2.50 mm thick film build per coat. Actual coverage depends upon the method of application, the texture and porosity of the surface. Therefore material requirement is approximately 2 kg/m<sup>2</sup> for 1.75 mm thick coating.

#### Thickness Require

**Floor Surface: 2.0 to 3.5mm**  
**Wall Surface: 1.5 to 2.8mm**

### External Applied:

#### **Exposed Type with Light-Traffic Waterproofing System R. C Flat Roof Direct to Sunlight. (3 to 5 Years Warranty System)**

- A) Applied 0.15-0.25 kg/m<sup>2</sup> of **Gem Primer** coat on all types of concrete, mortar or timber surfaces
- B) 0.75 kg per sq. Meter for First Coats of **Gem Seal EVA400**
- C) Laying a layer of reinforced **"Woven-Mat"** for Second layer.
- D) 0.75 kg per sq. Meter of **Gem Seal EVA400**
- E) After two coats have been cured, the finish coat and using roller to applied 1.00 kg per sq. Meter of **Gem Seal EVA400**
- F) Total thickness: 1.8-2.0mm

#### **Exposed Type with Light-Traffic Waterproofing System R. C Flat Roof Direct to Sunlight. (8 to 10 Years Warranty System)**

- A) Applied 0.15-0.25 kg/m<sup>2</sup> of **Gem Primer** coat on all types of concrete, mortar or timber surfaces
- B) 0.75 kg per sq. Meter for First Coats of **Gem Seal EVA400**
- C) 0.75 kg per sq. Meter for First Coats of **Gem Seal EVA400**
- D) Laying a layer of reinforced **"Woven-Mat"** for Second layer.
- E) 1.00 kg per sq. Meter of **Gem Seal EVA400**
- F) After three coats have been cured, the finish coat and using roller to applied 1.50 kg per sq. Meter of **Gem Seal EVA400**
- G) Total thickness: 2.9-3.1mm

#### **Exposed Type Waterproofing System Cement Plaster Wall (3 to 5 Years Warranty System)**

- A) Applied 0.15-0.25 kg/m<sup>2</sup> of **Gem Primer** coat on all types of cement wall
- B) 0.50 kg per sq. Meter for First Coats of **Gem Seal EVA400**
- C) (For crack line surfaces only) Laying a layer of reinforced **"Woven-Mat"** for Second layer.
- D) 0.50 kg per sq. Meter of **Gem Seal EVA400**
- E) After two coats have been cured, the finish coat and using roller to applied 0.50 kg per sq. Meter of **Gem Seal EVA400**

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### Internal Applied:

**Toilet/Bath Room Slab, Basement Floor/Wall, R.C Gutter, Reinforced Concrete Water Tank, Reservoir Tank or Flat Roof with Cement Sand Screed.  
(3 to 5 Years Warranty System)**

Toilet Slab	2.0 to 2.8 kg per sq. Meter	(Without reinforced woven-mat)
Basement Floor	2.0 to 2.8 kg per sq. Meter	(Without reinforced woven-mat)
Basement Wall	1.5 to 2.8 kg per sq. Meter	(Without reinforced woven-mat)
Flat Roof	2.8 to 3.5 kg per sq. Meter	(Without reinforced woven-mat)

**Packing:** 28 Kg Pail

### 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"

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**Health & Safety** Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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