

Liquid-Cold Applied Elastomeric Waterproofing Membrane.**Acrylic 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 300 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 300** 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 300 is a one component moisture-curing, pure acrylic 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 300** offers unparalleled economy and waterproofing protection.

Available of Color

Standard Color: White & Gray

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

PROPERTIES OF SPECIFICATION

(Worldwide Standard System)

Test Data Property*	Gem Seal 300	(Cured)
Shore A hardness (±5)	85	ASTM-D-2240
Tensile strength, psi (±25)	220	ASTM-D-412
Elongation at Break %	304	ASTM-D-412
100% Modulus, psi (±10)	80	ASTM-D-412
Minimum recovery %	98	
Service temp, range	-40 ° F to + 150 ° F	
Weather meter,	No cracking	ASTM-G-26
Transmission, perm inches	0.18	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 300**.

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 300** 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 300** to minimize the risk of frequent choking of the spray nozzle.

Estimating Data

The minimum recommended coverage of **Gem Seal 300** is 0.75 to 3.5 kg/m² 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/m² 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/m² 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 300**
- C) Laying a layer of reinforced **"Woven-Mat"** for Second layer.
- D) 0.75 kg per sq. Meter of **Gem Seal 300**
- E) After two coats have been cured, the finish coat and using roller to applied 1.00 kg per sq. Meter of **Gem Seal 300**
- 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/m² 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 300**
- C) 0.75 kg per sq. Meter for First Coats of **Gem Seal 300**
- D) Laying a layer of reinforced **"Woven-Mat"** for Second layer.
- E) 1.00 kg per sq. Meter of **Gem Seal 300**
- F) After three coats have been cured, the finish coat and using roller to applied 1.50 kg per sq. Meter of **Gem Seal 300**
- 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/m² of **Gem Primer** coat on all types of cement wall
- B) 0.50 kg per sq. Meter for First Coats of **Gem Seal 300**
- 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 300**
- E) After two coats have been cured, the finish coat and using roller to applied 0.50 kg per sq. Meter of **Gem Seal 300**

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"

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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