

DESCRIPTION

SINGLE COMPONENT, POLYURETHANE MEMBRANE

Guard PU-seal Pro is a single liquid component made up from pure polyurethane, which once catalyzed forms a continuous elastic membrane, without any joints, overlapping or any integrated mesh needs. Its properties make it an excellent choice for achieving air-tightness and perfect waterproofing on a multitude of surfaces and substrates. It is applied manually, using a roller or brush and, exceptionally, using specific spray equipment.

USES

Liquid membrane waterproofing system, to waterproofing or coating:

- Roofs, balconies, terraces and overhangs (walkables)
- Structural concrete slabs, and concrete walls and foundations
- Metal and asbestos roofs
- Green roof and walls

NOTE: call our technical department about the application to other supports or situations

TYPICAL PROPERTIES

Recommended thickness	± 2 mm
Dry time (23°C)	4 ~ 6 hours
Dilution	10% Thinner PU (only "airless" application)
Application tools	By brush, roll or "airless" equipment
Application method	Several thinlayers
Elongation (23°C)	> 650%
Tensile strength (23°C)	2 MPa



COLOR

	White
	Grey
	Red

GENERAL FEATURES

- Guard PU-seal Pro is a highly elastic and wear-resistant membrane that, once applied, offers great stability, durability and waterproof.
- Guard PU-seal Pro can adapt to any surface due to its versatility, making it an ideal product for application on uneven surfaces and in areas of any shape, be it curved or square.
- No surface reinforcement is required, only singular points of encounters with other building elements.
- Applying Guard PU-seal Pro produces a uniform finish and forms a single layer, providing a surface with optimal care and cleaning properties.
- The Guard PU-seal Pro polyurethane membrane system must be applied in dry conditions to avoid any moisture or water emanating from the surface or substrate to be coated.
- If there is moisture or humidity on the surface or substrate at the time of application, check our primary technical specifications where the maximum support humidity range is specified.
- If the application of Guard PU-seal Pro on the roof area, the System requires sun radiation protection (UV rays) because it is an aromatic membrane.
- The Guard PU-seal Pro system properties enable it to bond to any surface, such as cement, concrete, polyurethane foam, butyl and bituminous sheets wood, polyurethane plates, metal, etc.
- Guard PU-seal Pro can accept temperature changes between -40°C and +80°C, retaining its elastic properties.

YIELD

Product yield is 1.5 to 2 kg/m² with a thickness of 1.1 to 1.7 mm, applied in ONE or various, depending on the application method and conditions.

PACKAGING

Metal tins 6 kg and 25 kg.

SHELF LIFE

12 months at temperatures between 5°C and 25°C, provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

SURFACE PREPARATION

In general, you should take the following factors :

- Surface reparation (remove old existing waterproofing paints, and fill the cracks).
- Clean up the surface, removing dust, oils and grasses, and existing chippings.
- Support will be strong and dry.
- The supports must be firm and dry. No moisture or humidity inside or by capillarity from the backfill.

You can apply Guard PU-seal Pro liquid waterproofing membrane over several supports and materials. Below we set out some of the application for the most common surfaces; for other surfaces not described, please call our technical department.

Concrete substrate :

- The concrete should be completely cured (concrete curing takes 28 days).
- Any cracks, and damaged areas must be repaired.
- Existing joints or seals remove the old material.
- Next one, clean up well and eliminate all contaminants from the elements, such as dust or chippings, using dry methods preferably.
- Apply the primer in the conditions and the parameters indicated in the technical specifications for these products. On concrete.
- Apply the membrane depending on the chosen type (see "application types").

Metal substrate :

- Metal surfaces should be prepared using sand-blasting, in order to improve the surface's mechanical fixation properties. In many cases the application of corrosion inhibiting products will be required.
- For a quick and efficient cleaning up of the surface use a ketone based solvent.
- Apply prior priming using a water-based epoxy type primer.
- Application of the membrane depending on the chosen type (see "application types").

APPLICATION TYPES

Once the surface preparation and primer application are done, as conditions, proceed to extends of the polyurethane membrane, using the following methods:

Layers application (traditional/classic):

- Open the Guard PU-seal Pro metal tin and stir up to homogenize.
- Extended a first layer using a short hair roller, maximum thickness 0.8 mm, (applying the material without dilution).
- Wait for complete drying (depend on the weather conditions), about 5~6 hours.
- Then, apply the next layer, in the same way as above.
- Repeat this process as many times as necessary to achieve desired thickness.

Mechanical application ("airless" equipment):

- Add 5% solvent into Guard PU-seal Pro. Mix the drum with medium speed mechanical equipment. Apply thin layers using specific equipment.
- Wait total drying.
- Repeat this process until the desired thickness.

HANDLING

These safety recommendations for handling, are necessary for the implementation process as well as in the pre-and post, on exposure to the loading machinery.

- Respiratory Protection: When handling or spraying use an air-purifying respirator.
- Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking or smoking.
- Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in air.
- Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.