

TEGOLA SUPER SEAL (P)-25

Modified Bitumen Waterproofing Membrane

Rev.:01/5/2025

Description:

Tegola Super Seal (P)-25 is a APP (Atactic Polypropylene) modified torch on bitumen membrane, reinforced with nonwoven polyester mat and finished with thermos-fusible polyethylene film on top and bottom surface. The presence of reinforcement at core enhances puncture, tear resistance & dimensional stability of membrane imparting superior mechanical performance for durable service life.

Tegola Super Seal (P)-25 can be applied as base layer or top layer under protection for applications in single or multilayer system.

Tegola Super Seal (P)-25 is suitable for:

- Underlay for pitched roofs with shingles
- Basement raft and unconfined retaining walls
- Sunken slabs
- Concrete foundations & isolated footings
- Inverted roofs and terraces
- Podiums and parking decks
- Bridges, viaducts, and subways
- Metro tunnels
- Water retaining structures (externally).

FEATURES:

- Superior performance with uniform thickness and quality
- Watertight and impermeable – resistance to hydrostatic head of water
- Excellent resistance to water, soil chemicals and corrosive atmosphere preserving the structural integrity
- High mechanical strength, puncture, and tear resistance
- Excellent flexibility to absorb stresses and adapt to contours
- High resistance to flow at high temperatures and daily thermal cycles
- No curing period - works can be continued without waiting / shutdown period
- VERSATILE PRODUCT - suitable for application on all types of construction surfaces encountered in building structure - concrete, metal, wood, fiber reinforced cement sheet, asphalt, G.I. sheets, etc.

APPLICATION INSTRUCTIONS

Before starting the application, check for the adequate weather and substrate conditions.

- Concrete surface should be sound, free from defect & at least 28 days old with moisture content below 5%.
- Ambient and substrate temperature during membrane installation should be between 10 deg C to 50 deg C.

The general recommended guidelines for the application of Tegola Super Seal (P)-25 are as follows:

SURFACE PREPARATION

- Using conventional methods, clean and remove all laitance, foreign matter, dirt, dust, oil, grease, curing compound, loose particles and other contaminants which may impair adhesion of primer and water proofing membrane with the substrate.
- The surfaces should be checked for sharp or projecting aggregates or objects that may puncture the waterproofing membrane and suitably grinded to even smooth profile.
- The surface defects if any, such as honeycombs, cracks, etc., should be repaired and made defects free using suitable material and method.

APPLICATION

- Prepared surfaces shall be primed using Tegola Primer (S)-25 @ 0.2-0.3 Ltr/sqm, depending on substrate.
- Allow the applied primer to dry. After applied bituminous primer is dry, membrane rolls are spread over entire area for alignment with recommended overlaps. Allow the membrane to remain for 15-20 minutes to relieve stresses. Reroll membrane sheet from both sides towards the center without disturbing the alignment.
- Maintain side overlaps of 100 mm. Maintain end overlaps of 150 mm. Membrane shall be installed from the lowest point of the slope and progress to the highest point. Maintaining membrane previous alignment, start unrolling the membrane and simultaneously torch primed substrate and underside of the membrane.
- When the underside heating of the membrane exposes shiny bitumen surface, roll forward the membrane and press firmly from above against the substrate to obtain superior bonding.
- Maintaining the side and end overlaps, a thin bead of bitumen produced during torching at the seams should be smoothed out with a round

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tip hot trowel ensuring tight and impermeable seal.

- Once torching of membrane is commenced, care should be taken to avoid shifting / lifting of membrane and take care to prevent the damage to membrane.
- On vertical surface, the end edge of membrane should be suitably terminated by tucking it in to the groove made on vertical surface and groove filled with cement sand mortar (or) by fixing mechanically with metal flashing, the edges of metal flashing flush finished with caulk sealant.
- As Tegola Super Seal (P)-25 is not resistant to U.V rays nor resistant to puncture damage due to regular foot traffic, the installed membrane should not be left exposed to Sun nor subjected to direct foot traffic.

SUPPLY

Tegola Super Seal (P)-25 is supplied in following roll sizes:

| Thickness* | Roll Size | | Weight/sqm |
|------------|-----------|---------|-------------------------------|
| | Width* | Length* | |
| 2 mm | 1 m | 15 m | 2.65 ± 0.26 Kg/m ² |
| 3 mm | 1 m | 10 m | 3.85 ± 0.38 Kg/m ² |
| 4 mm | 1 m | 10 m | 5.15 ± 0.51 Kg/m ² |

STORAGE

- Tegola Super Seal (P)-25 membrane rolls must be stored between 5°C to 40°C in a dry place under covered shed and protected from extremes of temperature, rain, heat and sun and U.V rays.
- Rolls must be stored in upright vertical position on a flat even surface.
- Avoid stacking of rolls horizontally on their sides or in double stack position.
- Protect the rolls if stored outdoors with opaque protective covers to minimize sunlight and U.V exposure.

SHELF LIFE

The membrane has a shelf life of 5 years when stored as above. Failure to comply with recommended storage conditions may result in premature deterioration of the product.

HEALTH AND SAFETY

As with all bitumen products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes on the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

TECHNICAL DATA SHEET:

| Characteristics | Tegola Super Seal (P) 25 | | | Test Standard |
|---|--------------------------|-----------|-----------|---------------|
| Thickness** (mm) | 2 | 3 | 4 | ASTM D5147 |
| Penetration# at 25°C (dmm) | ≤20 | ≤20 | ≤20 | ASTM D 5 |
| Softening Point# (°C) | ≥150 | ≥150 | ≥150 | ASTM D 36 |
| Tensile Strength (N/5cm) | | | | |
| Longitudinal | 600 ± 200 | 700 ± 200 | 750 ± 200 | ASTM D 5147 |
| Transversal | 400 ± 150 | 450 ± 200 | 450 ± 150 | |
| Elongation at Break (%) | | | | |
| Longitudinal | 30 ± 15 | 30 ± 15 | 30 ± 15 | ASTM D 5147 |
| Transversal | 30 ± 15 | 30 ± 15 | 30 ± 15 | |
| Water Absorption (%) | ≤0.20 | ≤0.20 | ≤0.20 | ASTM D 5147 |
| Flexibility at Low Temperature^ (°C) (No Cracks) | 0 to -5 | 0 to -5 | 0 to -5 | ASTM D 5147 |

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|---|----------------------|----------------------|----------------------|-------------|
| Dimensional Stability (%) | | | | |
| Longitudinal | ≤0.50 | ≤0.50 | ≤0.50 | ASTM D 5147 |
| Transversal | ≤0.50 | ≤0.50 | ≤0.50 | |
| High Temperature Flow Resistance at 120°C for 2 Hours | No Flow | No Flow | No Flow | ASTM D 5147 |
| Tear Resistance (N) | | | | |
| Longitudinal | >250 | >250 | >250 | ASTM D 5147 |
| Transversal | >200 | >200 | >200 | ASTM D 4073 |
| Puncture Resistance (N) | >400 | >400 | >400 | ASTM E 154 |
| Reinforcement Polyester | 150 g/m ² | 150 g/m ² | 150 g/m ² | - |

* Mentioned values are based on testing under ideal laboratory conditions. Actual test results may vary due to circumstances which are beyond our control, viz: variation in test methods, sample preparation, test temperatures and conditions, manual errors, etc. TEGOLA CANADESE reserves the right to change the properties of its products without prior notice.

** Tolerance: Thickness ±10%.

Compound properties tested during manufacturing process

^ As Required

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application and thus are beyond our sphere of influence. We strongly recommend that in each case sufficient tests are Conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted based on the contents of this datasheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical datasheet supersedes all previous editions relevant to this product. TEGOLA CANADESE reserves the right to amend the composition of its material and consequently their prices, without prior notice. For this reason, all orders will be accepted only in accordance with the conditions and technical specifications in force at the date of order. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned copies of which will be supplied on request.