

Sealgun

High performance – APP modified waterproofing membrane polyester reinforced
(Formerly known as Aylagum)



Description

Sealgun is a factory preformed APP modified bituminous waterproofing and roofing membrane polyester reinforced.

Manufactured in 4 mm & 4 mm slated membranes.

Applications

Sealgun due to its high malleability, it is specially designed for effective use in the waterproofing of below grade structures, foundations, basements, plazas, as well as in new roofing, re-roofing, maintenance roofing, flashing, and any where a high performance waterproof membrane is required in commercial, industrial, residential, institutional and other civil engineering applications.

Advantages

Sealgun is factory manufactured five layer membrane namely: polyethylene film or sand finished or slated finished facing, APP modified bitumen compound, non woven polyester reinforcement weighing 160 - 180 grms/m², APP modified bitumen compound and flammable polyethylene base film. This balanced combination of plastomeric compound and polyester reinforcement provides Sealgun membranes with excellent mechanical properties.

The polyester reinforcement provides the membrane with excellent dimensional stability and puncture resistance. The specially formulated mixture of APP modified bitumen gives the membrane:

- ▲ Excellent resistance to atmospheric agents and chemical attacks.
- ▲ High malleability to accommodate difficult applications as well as structural movements.
- ▲ High flexibility for applications at below zero temperatures with no physical strains.

The plastomeric compound and the properties of the reinforcement are carefully and correctly balanced to obtain excellent tensile strength, tear resistance, elongation and puncture resistance.

Method of Use

Sealgun is applied by propane gas torch to a prepared substrate.

The following are general guidelines for installation:

Priming

Use D-41 PRIMER on concrete decks and up stands.

Alignment

Unroll Sealgun rolls and check for alignment before bonding. Overlaps should be minimum 100 mm along the sides and not less than 150 mm at roll ends. Re-roll Sealgun and prepare for bonding.

Bonding

Use propane gas torch to heat substrate and underside of Sealgun membrane until the clear polyethylene film is burned away and the polymeric compound begins to melt (its color turns from shiny to matt). Press membrane firmly against substrate.

Sealing

Excess compound should be smoothed and pressed into the seam (using hot trowel).

Flashing

Flash all terminations, up stands and projections through the slab.

Packaging

Sealgun is available in 1 x 10 meter roll size.

Sealgun 4 mm 23 rolls/pallet.

Sealgun 4 mm slated 23 rolls/pallet.

Availability

Sealgun is available through authorized dealers in the area.

Sealgum



Technical Properties:

Membrane thickness: ASTM D751	4 mm ± 5%
Reinforcement base of the membrane:	160 - 180 g/m ² , non-woven polyester
Softening point (Ring & Ball test) of coating mixture: ASTM D36	155°C
Penetration (DOW) of coating mixture: ASTM D5	12 - 20 dmm @ 25°C
Creeping of the membrane at 60° slope surface at a test temperature of 100°C or 212°F during 120 hours: UEAtc	No creeping
Service ambient temperature:	-10 to 100°C
Impermeability of the membrane to water: UEAtc	Absolutely impermeable
Water absorption: ASTM D5147	< 0.15%
Water vapour permeability: ASTM E96	< 0.2 g/24 hr/m ²
Resistance to thermal ageing: UEAtc	No signs of deterioration after the test
Resistance to ageing due to UV-radiation: UEAtc	No signs of deterioration after the test
Hydrostatic pressure resistance: UEAtc	> 60 KPa (24 hr)
Tensile strength: ASTM D5147	
Longitudinal	700 N/5 cm
Transversal	500 N/5 cm

Technical Properties:

Elongation: ASTM D5147	
Longitudinal	40%
Transversal	40%
Tear resistance: ASTM D5147	
Longitudinal	600 N
Transversal	450 N
Puncture resistance: UEAtc	L4 (25 kg 10 mm ball - no effect)
Atatic Dynamic	I 4 (9 joules impact energy 5 mm ball - no effect)
Flexibility at low temperature: UEAtc, ASTM D146, CGSB-37-GP-56M	0 to -4°C

Note: The technical data shown here are the average values of tests, measurements and trials, carried out on the Sealgum Waterproofing membranes. The data may be changed, improved modified by DCP without prior notice.

Storage

All roofing should be inspected periodically. Check the condition of the protective elements. Accidentally damaged or worn areas can be patched by using the same material.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Installation works of torch-applied bituminous membranes should be executed in well ventilated areas. Use gloves and keep flames directed away from body and flammable materials.

For further information refer to the Material Safety Data sheet.

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- ↗ Waterproofing.
- ↗ Adhesives.
- ↗ Tile adhesives and grouts.
- ↗ Building products.
- ↗ Structural strengthening.


Sealgum

Note:

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